Estimated Water Withdrawals and Use in Illinois, 1990

By Charles Avery

U.S. GEOLOGICAL SURVEY

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CONVERSION FACTORS

| Multiply | Ву | To obtain |
|----------------------------------|---------------------|----------------------|
| foot (ft) | 0. 3048 | meter |
| inch (in.) | 25.4 | millimeter |
| million gallons per day (Mgal/d) | 3,785 | cubic meter per day |
| gallon per day (gal/d) | 0.003785 | cubic meter per day |
| gigawatt-hour (GWh) | $3,413 \times 10^9$ | British thermal unit |

Estimated Water Withdrawals and Use in Illinois, 1990

By Charles Avery

Abstract

The total amount of water withdrawn in Illinois during 1990 was about 18,016 million gallons per day (Mgal/d). This amount was about 740 Mgal/d less than in 1988. The total water withdrawn for thermoelectric-power generation was about 15,170 Mgal/d; about 370 Mgal/d was consumptively used. About 936 Mgal/d, or 33 percent, of the total water withdrawn in Illinois during 1990 was ground water, excluding withdrawals for thermoelectricpower generation; about 1,911 Mgal/d of surface water was withdrawn and used, excluding withdrawals for thermoelectric-power generation. Seventy-four percent of the total surface water, excluding withdrawals for thermoelectric-power generation, was withdrawn by public-supply facilities. The next largest use of surface water was for self-supplied industrial withdrawals. Forty-seven percent of the total ground water was withdrawn by public-supply facilities. The next largest use of ground water was for irrigation. About 25 Mgal/d of the total ground water withdrawn was saline. Sixty-five percent of the total water withdrawn, excluding thermoelectric withdrawals, in Illinois during 1990 was for public-supply facilities. The next largest users of the total water withdrawn was for self-supplied withdrawals by industries and for irrigation.

Water withdrawn and delivered from public-supply facilities in Illinois during 1990 totaled about 1,859 Mgal/d. Surface water and

ground water were the sources for about 1,415 and 444 Mgal/d, respectively, of the withdrawals for public supply. The total water obtained from Lake Michigan for public-water supply was about 1,146 Mgal/d. About 115 Mgal/d was withdrawn for self-supplied domestic purposes. Total selfsupplied withdrawals and deliveries from publicwater facilities for commercial use were about 672 Mgal/d. About 173 Mgal/d was self supplied by the commercial establishments. Total irrigation water withdrawals were about 78 Mgal/d. Total estimated livestock withdrawals were about 63 Mgal/d. Total self-supplied withdrawals and deliveries from public-supply facilities for industrial purposes were about 728 Mgal/d. About 464 Mgal/d was self-supplied withdrawals by industrial facilities. A total of about 94 Mgal/d was withdrawn during mining activities. A total of about 33 Mgal/d was withdrawn during mining from ground-water sources; about 25 Mgal/d of the ground water withdrawn was saline.

INTRODUCTION

Water-use information aids in the planning and management of water resources in Illinois. Water-use data serve the needs of governmental agencies, public water-supply operators, water-resource managers, and researchers for assessing current water-use patterns and anticipating future water demands. This report, prepared in cooperation with the Illinois State Water Survey (ISWS), provides statewide water-use data for

1990. The last comprehensive water-use report for Illinois provides data for 1988 (Avery, 1995).

The State of Illinois has an abundant but finite supply of *surface water*¹ and *ground water*. The State is bounded by major surface-water resources; the Mississippi River on the western border, the Ohio and Wabash Rivers on the south and southeast, and Lake Michigan on the northeast (fig. 1). Major tributaries to the rivers bounding the State are the Illinois, Kaskaskia, Rock, Big Muddy, Embarras, and Kankakee Rivers. No saline surface-water sources are found in Illinois. Ground water also is a widely available *freshwater* resource in Illinois. Major aquifers underlying Illinois include the saturated unconsolidated sand and gravel deposits, the Pennsylvanian-Mississippian aquifer, Silurian aquifer, and the Cambrian-Ordovician aquifer (U.S. Geological Survey, 1985).

Definition of terms is critical in understanding water-use data. Water-use terms utilized in this report are presented in the glossary (at the back of the report). Definitions of water-use terms in the glossary are from Solley and others (1993). This report deals primarily with water withdrawals. Some withdrawal data are documented quantities, obtained from questionnaires sent to water users by the ISWS, of water withdrawn for public supply, for commercial establishments, for industrial and mining activities, and for thermoelectricpower generation. Other withdrawal values are estimated quantities of water, determined by extrapolating from related known data for the categories of domestic, irrigation, and livestock use. Water withdrawn in a county or hydrologic unit (drainage basin) may or may not be used in the same county or hydrologic unit; when water-withdrawal values are estimated, it is assumed that the water was withdrawn in the same county or hydrologic unit as its use, which may or may not be the case, however.

Data bases of water-use information are maintained by the ISWS and the U.S. Geological Survey (USGS). The data base maintained by the USGS includes water-withdrawal data collected and aggregated by the ISWS, water-returns data collected by the Illinois Environmental Protection Agency, and water-use data estimated by the USGS. This USGS data base contains a site-specific water-use data system (SSWUDS) and an aggregated water-use data system (AWUDS).

Purpose and Scope

The purpose of this report is to present aggregated data on water withdrawals during 1990 in Illinois. Water-withdrawal data were collected from public-supply facilities, mining companies, thermoelectric-power generating plants, and self-supplied commercial and industrial establishments. Withdrawals for self-supplied domestic, irrigation, and livestock purposes were estimated by means of methods discussed later in the report. The data for the entire State were aggregated by county (fig. 1) and hydrologic unit (fig. 2).

Acknowledgments

The author thanks Kenneth J. Hlinka, Kris K. Klindworth, and Kay M. Charles of the Illinois State Water Survey for the time and effort expended to collect and compile the water-withdrawal data for 1990.

METHODOLOGY

Water-withdrawal data are collected or estimated using various methods. Data provided by the water users generally are more accurate than estimates because they are measured values, in most cases.

Collection of Water-Withdrawal Data

Water-withdrawal data (primarily site-specific metered usage) for public-supply facilities, mining companies, thermoelectric-power generating plants, and self-supplied commercial and industrial establishments are obtained every year from questionnaires sent to about 4,000 water users by the ISWS. The water users are asked to return the forms to the ISWS where the data are checked and digitized. If a water user does not respond to the questionnaire, a second questionnaire is sent, and a follow-up telephone call is made as a final recourse. If it is determined that a water user cannot provide the data, an amount is estimated based on other information provided by the water user or by extrapolating data from previous years. If no previous data are available to make an estimate, no withdrawal data for that water user are entered into the data base. These data are aggregated by county and hydrologic unit by the ISWS and released to the USGS.

¹Italicized terms are defined in the Glossary.

Water-Withdrawals Estimation Techniques

Water use for self-supplied domestic, irrigation, and livestock purposes is estimated from other related data available by county aggregation, such as population and agricultural census figures. The estimated withdrawal data are subsequently aggregated by hydrologic unit by multiplying the proportion of each hydrologic unit within a county by the water-use estimate for the county. It is assumed that all unmetered *self-supplied water* use for domestic purposes, irrigation, and livestock in Illinois is obtained from ground-water sources, except for a small amount of surface water used for irrigation. The estimated withdrawal data are entered directly into AWUDS. Deliveries from public supplies were estimated for domestic, commercial, industrial, and thermoelectric-power generation uses.

Self-Supplied Domestic Withdrawals

Self-supplied domestic water use is estimated by multiplying an estimated rural domestic per capita water use for each county by the self-supplied population for each county. The estimated rural domestic per capita water use in each county is the average per capita water use of the small water-supply systems that serve 800 people or less and have two or less commercial establishments (Kirk, 1987, p. 7). The self-supplied population is the difference between the total county population and the population served by public water-supply facilities in the county. The statewide average rural domestic per capita water use during 1990 was calculated at 95 gal/d.

Irrigation Withdrawals

Irrigation water withdrawals are estimated by multiplying the irrigated crop acreage by the cumulative moisture surplus or deficit for plant transpiration determined from rainfall amounts (Kirk, 1987). The irrigated crop acreage in each county was obtained from Bowman and Kimpel (1991). Counties with a large number of golf courses have had the acreage of the golf courses included as irrigated acreage. Daily rainfall totals at weather stations for nearly all the counties were obtained from the monthly reports of the National Oceanic and Atmospheric Administration (1991a, 1991b, 1991c, 1991d). The rainfall between May 1 and August 31, 1990, was totaled on a 7-day basis and the seasonal cumulative moisture surplus or deficit was determined for each county by the following procedure.

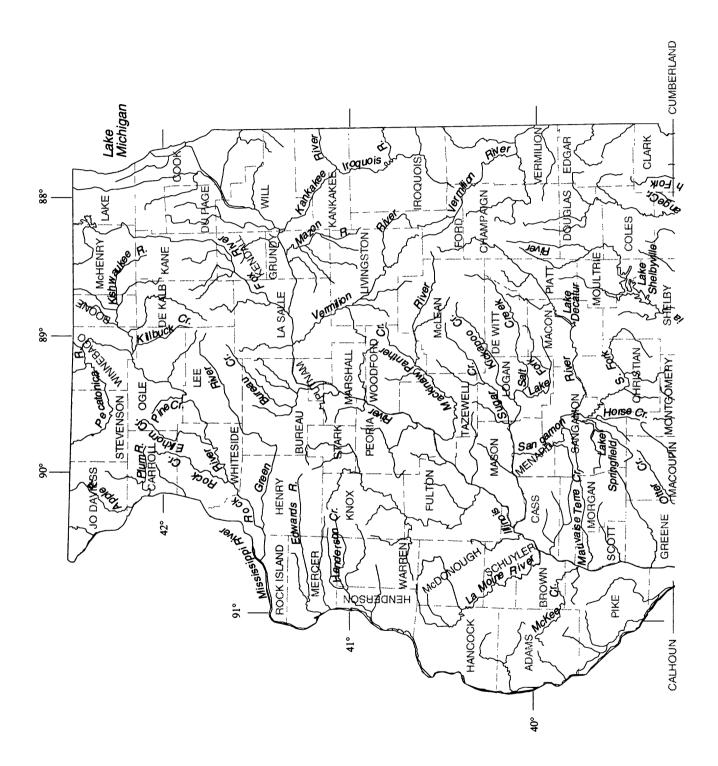
- 1. If more than 1.25 in. of rain falls during the first 7 days of the growing season, one-half the amount of rain exceeding 1.25 in. is assumed to contribute to moisture surplus and is added to the cumulative moisture determination. If less than 1.25 in. of rain falls during that period, the difference between the actual rainfall and 1.25 in. is estimated to be the quantity of water, in inches, applied by irrigation during that period. This difference is subtracted from the cumulative moisture determination.
- 2. For each subsequent 7-day period during the growing season, the rainfall is totaled. One-half of the rainfall during the period in excess of 1.25 in. is added to the cumulative moisture determination. If the rainfall amount is less than 1.25 in., then the difference is subtracted from the cumulative moisture determination. The seasonal cumulative moisture surplus or deficit is determined for the entire crop-growing season. If the seasonal moisture is in deficit, this value is the total estimated irrigation water applied, in inches, for the year.

The rainfall and cumulative moisture surplus or deficit for plant transpiration were determined for each county for the 1990 crop-growing season. The total *irrigation water use* in each county was calculated by multiplying the cumulative moisture deficit, in inches, by the irrigated acreage for the county. The total irrigation water use was divided by 365 days to obtain a daily rate for the year.

Livestock Withdrawals

Water use for livestock purposes is determined by multiplying the county population of each major type of farm animal by the estimated water directly consumed by the animal and other water used in association with the animal (Kirk, 1987). The major animal populations for each county were obtained from the U.S. Bureau of Census (1989). The estimated water used from direct consumption by and uses associated with each animal type are as follows:

| Animal type | Estimated water use (gallons per day) |
|------------------|--|
| Dairy cows | 35.0 |
| Beef cattle | 12.0 |
| Horses and mules | 12.0 |
| Hogs | 4.0 |
| Goats | 3.0 |
| Sheep | 2.0 |
| Turkeys | .12 |
| Chickens | .06 |
| Rabbits | .05 |
| Mink | .03 |



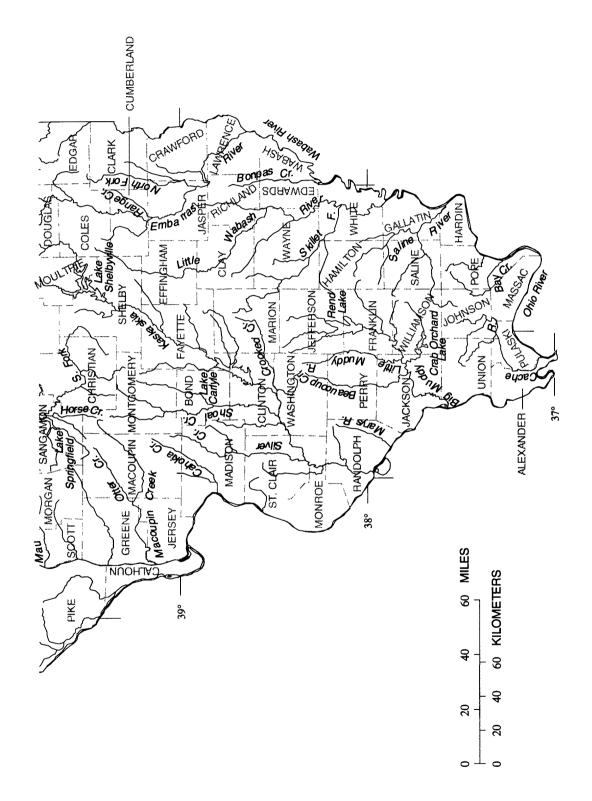


Figure 1. Counties and major surface-water bodies in Illinois.

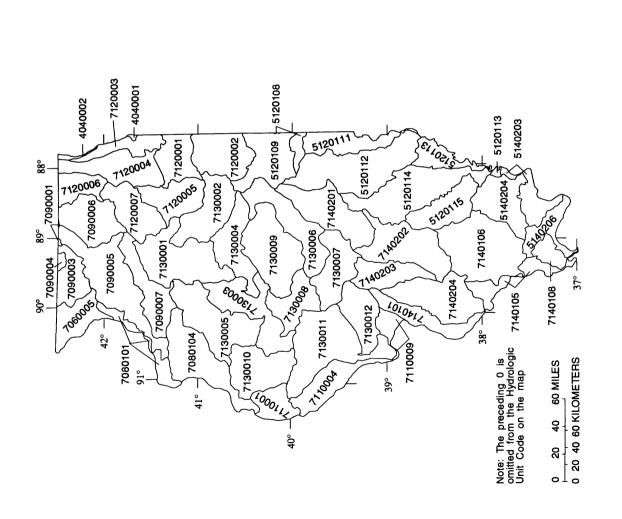


Figure 2. Hydrologic-unit boundaries in Illinois.

EXPLANATION

| DRAINAGE BASIN NAME | 'n | Middle Wabash-Little Vermilion Vermilion (Wabash River drainage) | Middle Wabash-Busseron Embarras | Lower Wabash | Little Wabash Skillet | Lower Ohio-Bay | Lower Ohio | Apple-Plum | Copperas-Duck Flint-Henderson | Upper Rock | Pecatonica Sugar | Lower Rock | Kishwaukee | Green Rear-Waconda | The Snv | Peruque-Piasa | Kankakee | Chicago | Des Plaines | Upper Illinois | Upper Fox | Illinois-Senachwir | Vermilion (Illinois River drainage) | | Spoon | Opper Sangamon South Fork Sangamon | Lower Sangamon | Salt Le Moine | Lower Illinois | Macoupin | Canokia-Joachim Upper Mississippi-Cape Girardeau | Big Muddy | Unner Kaskaskia | _ | Siloai Lower Kaskaskia | · |
|--------------------------|-----|---|------------------------------------|--------------|--------------------------|----------------|------------|------------|----------------------------------|------------|---------------------|------------|------------|-----------------------|----------|---------------|----------|----------|-------------|----------------|-----------|--------------------|-------------------------------------|----------|-------|---------------------------------------|----------------|------------------|----------------|----------|---|-----------|-----------------|----------|---------------------------|------|
| HYDROLOGIC- UNIT CODE | 540 | 05120108 05120109 | 05120111 | 05120113 | 05120114 05120115 | 05140203 | 05140206 | 07060005 | 07080101 | 0709001 | 07090003 | 07090005 | 07090006 | 07080007 | 07110004 | 07110009 | 07120001 | 0/120002 | | _ | 07120006 | | 07130002 | 07130004 | | 07130006 | 07130008 | | | 07130012 | 07140101 | | 07140201 | 07140202 | 07140204 | from |

ESTIMATED WATER WITHDRAWALS AND USE IN ILLINOIS, 1990

Only offstream uses of water in Illinois are presented in this report; instream uses, such as for hydroelectric-power generation, are not considered. Data are aggregated by county and hydrologic unit. Surface-water and ground-water withdrawals are aggregated by major categories of water use.

Public-Supply Withdrawals

Water withdrawn and delivered from public-supply facilities in Illinois during 1990 totaled about 1,859 Mgal/d (tables 1 and 2; all tables at end of report); about 1,956 Mgal/d was withdrawn in 1988 (Avery, 1995). Surface water and ground water were the sources for about 1,415 and 444 Mgal/d, respectively, of the withdrawals for public supply during 1990; about 1,495 and 462 Mgal/d of surface water and ground water, respectively, were withdrawn in 1988 (Avery, 1995).

Withdrawals from ground water and surface water for public supply are subsequently delivered to water users connected to the water-distribution system. Water from public-supply facilities is delivered to households for domestic purposes, commercial establishments, industrial concerns, and thermoelectric-power plants. Eighty-nine, seventy-four, and thirty-six percent of the water used for domestic, commercial, and industrial purposes, respectively, were delivered by public-supply facilities. A minimal amount (less than 2 Mgal/d) of water was delivered by public-supply facilities to thermoelectric-power generators.

Eighty-eight percent of the population of Illinois are served by public-supply facilities. The largest withdrawals of ground water for public supply were in Champaign, Cook, Du Page, Kane, Lake, La Salle, McHenry, Madison, Peoria, Tazewell, Will, and Winnebago Counties (fig. 3). The largest amounts of surface water withdrawn for public supply were from Lake Michigan, the Mississippi River, and the Sangamon River. About 1,146 Mgal/d, or 81 percent of the surface water withdrawn and used in Illinois for public supply, is obtained from Lake Michigan (hydrologic unit 04060200) (table 2). Counties with large withdrawals from surface-water sources for public supply were Cook, Lake, Macon, Madison, and Sangamon (fig. 4).

Estimated Self-Supplied Domestic Withdrawals

Self-supplied water for domestic use includes the relatively small amounts of water used by individual households. All self-supplied domestic water in Illinois is reported to be ground water obtained from a water well or spring (Kirk, 1987). About 115 Mgal/d is estimated to have been withdrawn for self-supplied domestic purposes in 1990 (tables 1 and 2); about 122 Mgal/d was estimated to have been used in 1988 (Avery, 1995).

About 11 percent of the total water used for domestic use in Illinois was self supplied. The largest withdrawals of self-supplied domestic water were in Du Page, Lake, McHenry, Will, and Winnebago Counties (fig. 5). The population served by public-supply facilities and the self-supplied population in Illinois are shown in tables 3 and 4. The greatest proportion of self-supplied to public-supplied population is in Calhoun, Cumberland, Edwards, Henderson, Jasper, Kendall, and Shelby Counties.

Commercial Withdrawals

Total self-supplied withdrawals and deliveries from public-water facilities for commercial use were about 672 Mgal/d (tables 5 and 6). About 173 Mgal/d was self supplied by the commercial establishments. More surface water than ground water was withdrawn for self-supplied commercial use. The largest self-supplied commercial withdrawals of ground water were in Champaign, Cook, Du Page, Jackson, Madison, Masson, Massac, and St. Clair Counties (fig. 6). The largest self-supplied commercial withdrawals of surface water were in Calhoun, Carroll, Cook, Jersey, and Williamson Counties (fig. 7).

Estimated Irrigation Withdrawals

Total irrigation withdrawals were estimated to have been about 78 Mgal/d in 1990 (tables 7 and 8); about 302 Mgal/d was withdrawn in 1988 (Avery, 1995). Irrigated acreage has increased from 281,370 in 1988 (Avery, 1995) to 286,540 acres in 1990.

Irrigation water is applied during the growing season of May-August, but the total water used is averaged over the entire year (as presented in this report). The source of most irrigation water is ground water,

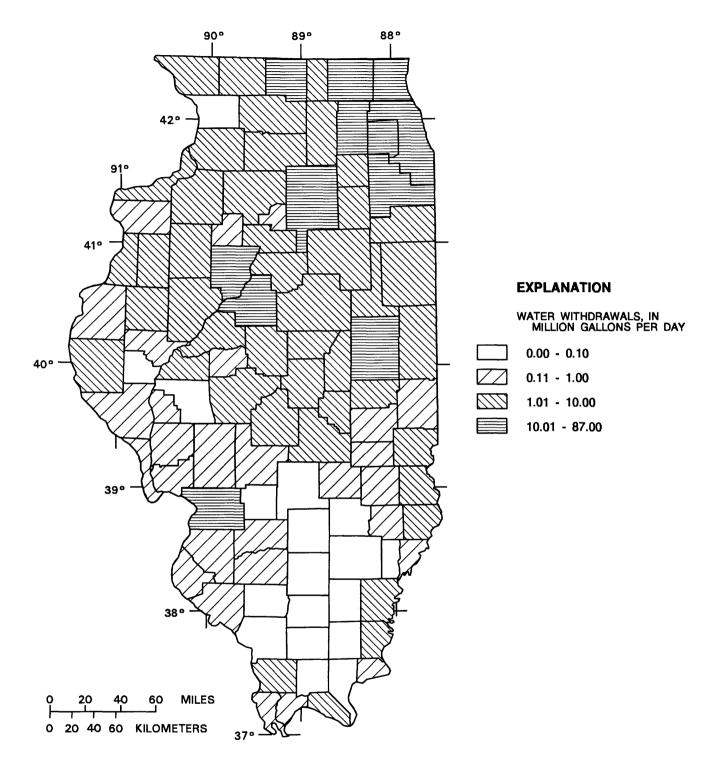


Figure 3. Public-supply withdrawals of ground water in Illinois, by county, 1990.

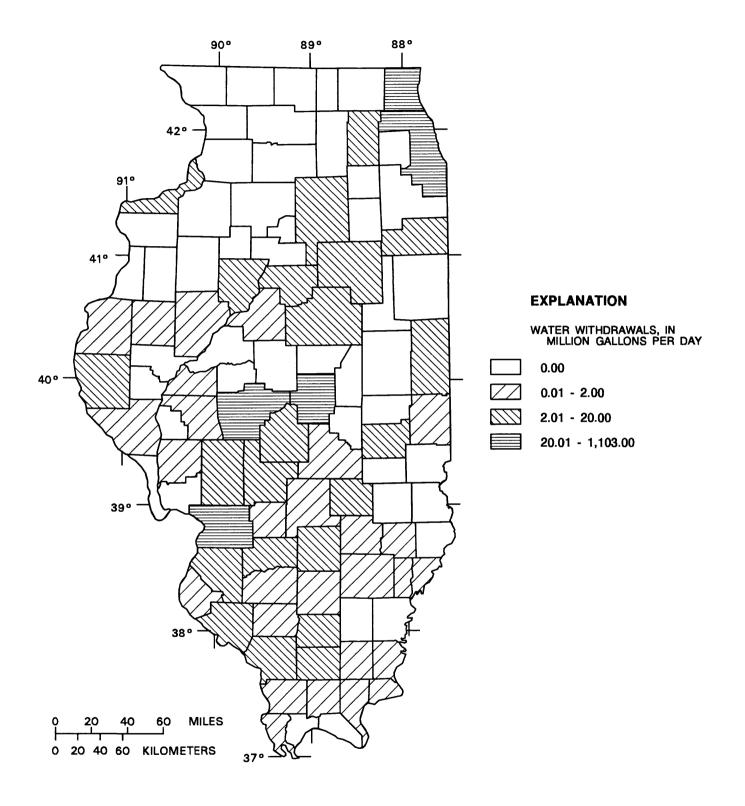


Figure 4. Public-supply withdrawals of surface water in Illinois, by county, 1990.

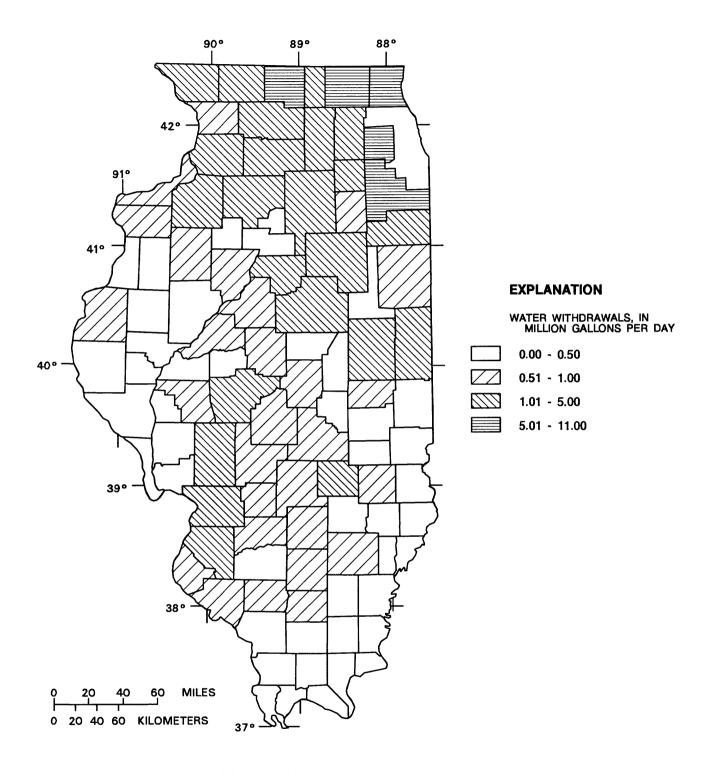


Figure 5. Estimated self-supplied domestic withdrawals of water in Illinois, by county, 1990.

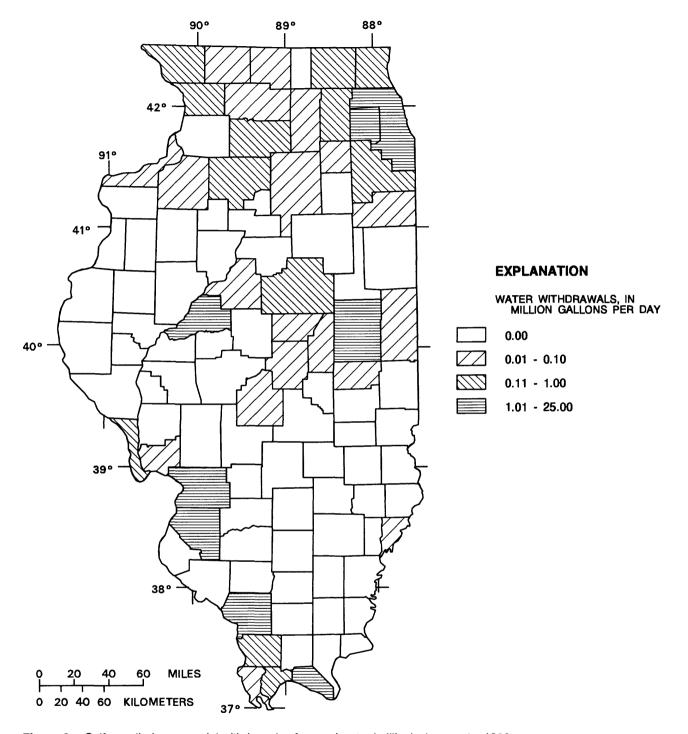


Figure 6. Self-supplied commercial withdrawals of ground water in Illinois, by county, 1990.

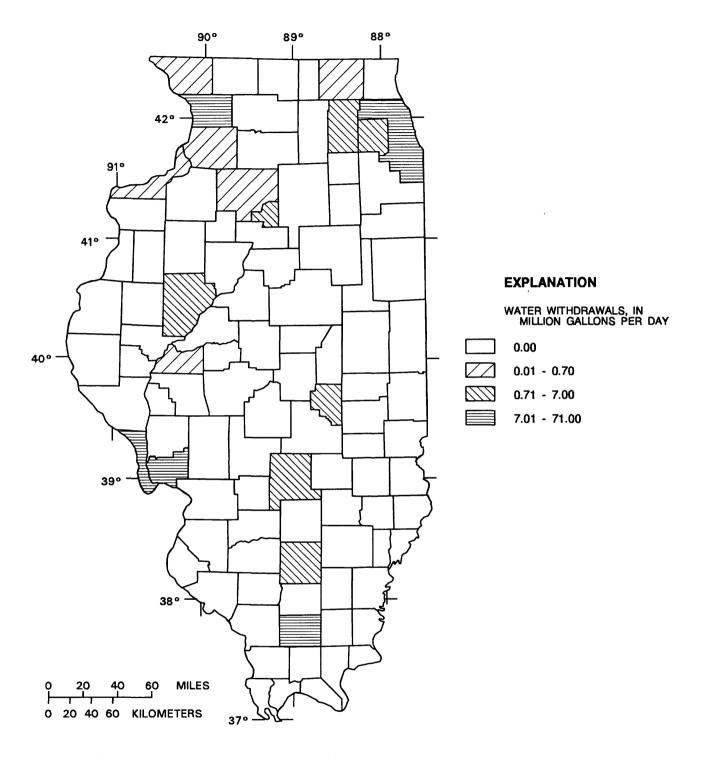


Figure 7. Self-supplied commercial withdrawals of surface water in Illinois, by county, 1990.

12

except for relatively small amounts (less than 1 Mgal/d) of surface water applied in numerous counties throughout the State. All ground water used for irrigation is applied by spray methods; thus, very little *conveyance loss* results during the process of irrigation. Most of the irrigation water was used in Clark, Cook, Du Page, Gallatin, Kankakee, Lawrence, Lee, Mason, Tazewell, White, and Whiteside Counties (fig. 8).

Estimated Livestock Withdrawals

Total withdrawals for livestock and animal specialties use were about 63 Mgal/d in 1990 (tables 7 and 8); about 56 Mgal/d was used for livestock in 1988 (Avery, 1995). It is assumed that the source of water for livestock uses is ground water, either wells or springs. About 9 Mgal/d of ground water and about 2 Mgal/d of surface water were used for animal specialties. The largest use for livestock and animal specialties was in Henry, Jo Daviess, Mason, and Stephenson Counties (fig. 9).

Industrial Withdrawals

Self-supplied withdrawals and deliveries from public supply for industrial use were about 728 Mgal/d in 1990 (tables 9 and 10); about 743 Mgal/d was used in 1988 (Avery, 1995). The industries included in this category are the 20 major Division D Manufacturing groups from the Standard Industrial Classification Manual (Office of Management and Budget, 1987). About 464 Mgal/d was self-supplied withdrawals by industrial facilities; 33 percent of the self-supplied water was from ground-water sources. The largest selfsupplied withdrawals of ground water for industrial use were in Adams, Champaign, Cook, Grundy, La Salle, Madison, Massac, Morgan, Peoria, Rock Island, Tazewell, Whiteside, Will, and Winnebago Counties (fig. 10). The largest self-supplied withdrawals of surface water for industrial use were in Cook, Lake, Madison, Peoria, Rock Island, Tazewell, and Will Counties (fig. 11). No saline ground water or surface water is withdrawn for industrial use.

Mining Withdrawals

A total of about 94 Mgal/d was withdrawn during mining activities in 1990; about 94 Mgal/d

was withdrawn in 1988 (Avery, 1995). Both fresh and saline ground water are withdrawn during mining (tables 11 and 12). Only fresh surface water occurs in Illinois: thus, the fresh surface water used during mining is all freshwater. About 61 Mgal/d of mining withdrawals was from surface-water sources. About 33 Mgal/d of mining withdrawals was from groundwater sources; about 25 Mgal/d of the ground water was saline. Most of the ground water withdrawn during mining was in the southern Illinois counties of Crawford, Fayette, Gallatin, Hardin, Jasper, Lawrence, Perry, Wabash, Wayne, and White (fig. 12). Most of the surface water withdrawn during mining was in Champaign, DeKalb, Franklin, La Salle, McHenry, Perry, St. Clair, Saline, and Williamson Counties (fig. 13). The total consumptive use of the water withdrawn during mining was about 46 Mgal/d, or about 49 percent of the total water withdrawn during mining (tables 11 and 12).

Thermoelectric-Power Generation Withdrawals

Self-supplied withdrawals and deliveries from public supplies for thermoelectric-power generation were about 15,170 Mgal/d in 1990 (tables 13 and 14); about 15,589 Mgal/d was withdrawn in 1988 (Avery, 1995). Both fossil-fuel and nuclear-fuel thermoelectric-power generators are included in this category.

Most of the water withdrawn for thermoelectric-power generation is from surface-water sources and is withdrawn at or near the power-generating stations, although a small amount of water is obtained from self-supplied ground water and deliveries from public-water facilities. Most of the ground water withdrawn for thermoelectric-power generation was in Rock Island, Tazewell, and Will Counties (fig. 14). Most of the surface water withdrawn for thermoelectric-power generation was in Grundy, Lake, Randolph, and Will Counties (fig. 15). Consumptive use of water for thermoelectric-power generation was about 370 Mgal/d, or about 2 percent of the total water withdrawn for thermoelectric-power generation.

Total Water Withdrawals

The total amount of water withdrawn in Illinois during 1990 was about 18,016 Mgal/d (tables 15 and 16). This amount was about 740 Mgal/d less than in

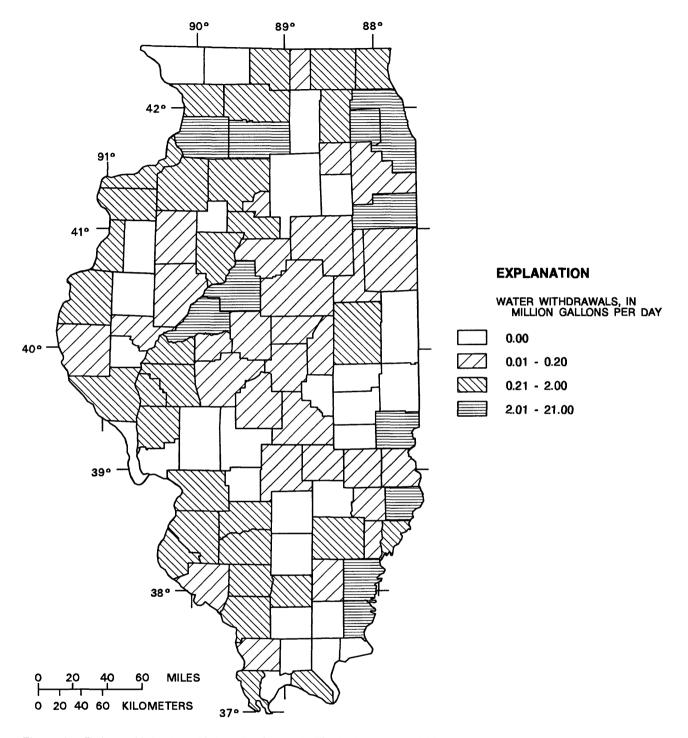


Figure 8. Estimated irrigation withdrawals of water in Illinois, by county, 1990.

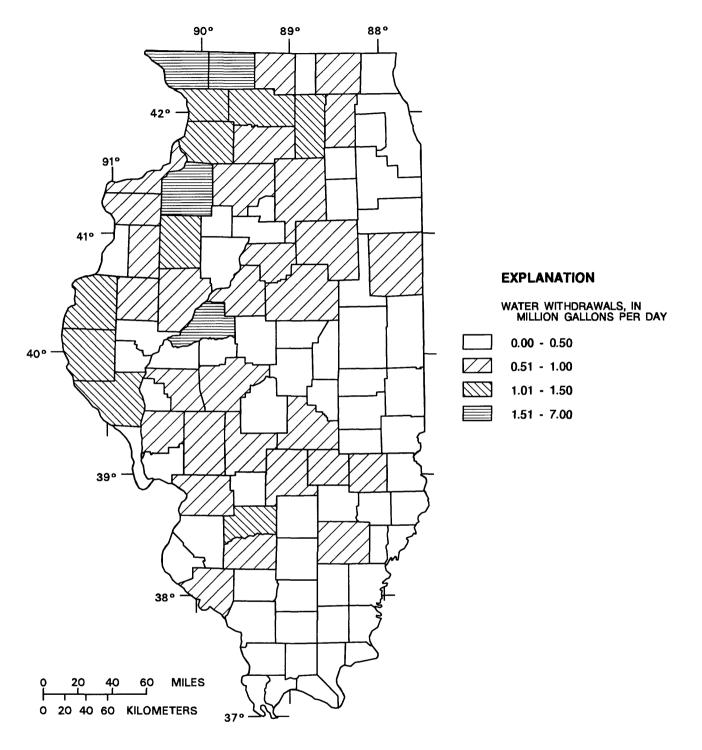


Figure 9. Estimated livestock and animal specialties withdrawals of water in Illinois, by county, 1990.

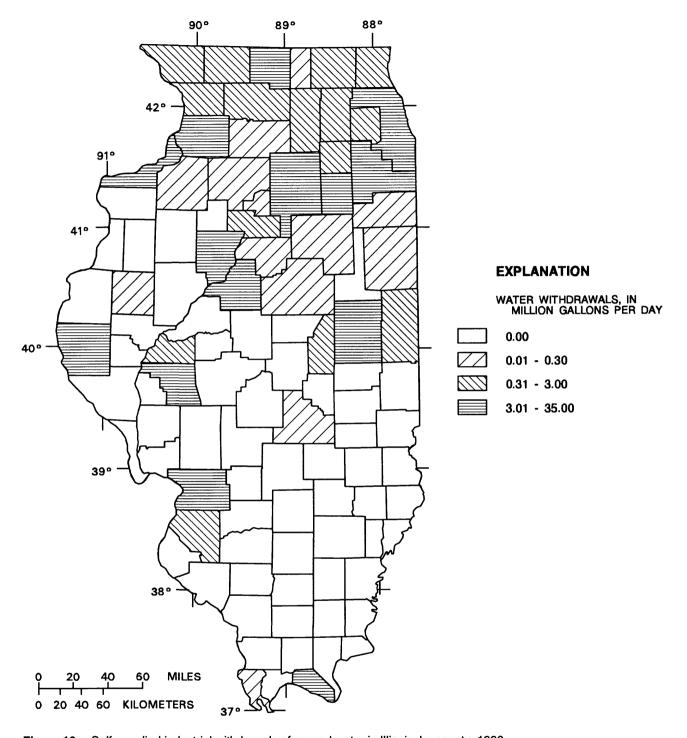


Figure 10. Self-supplied industrial withdrawals of ground water in Illinois, by county, 1990.

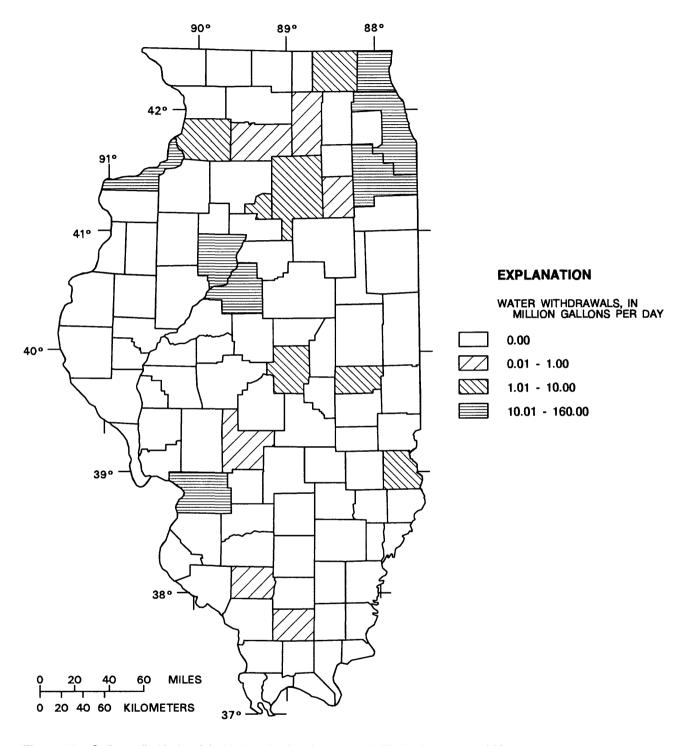


Figure 11. Self-supplied industrial withdrawals of surface water in Illinois, by county, 1990.

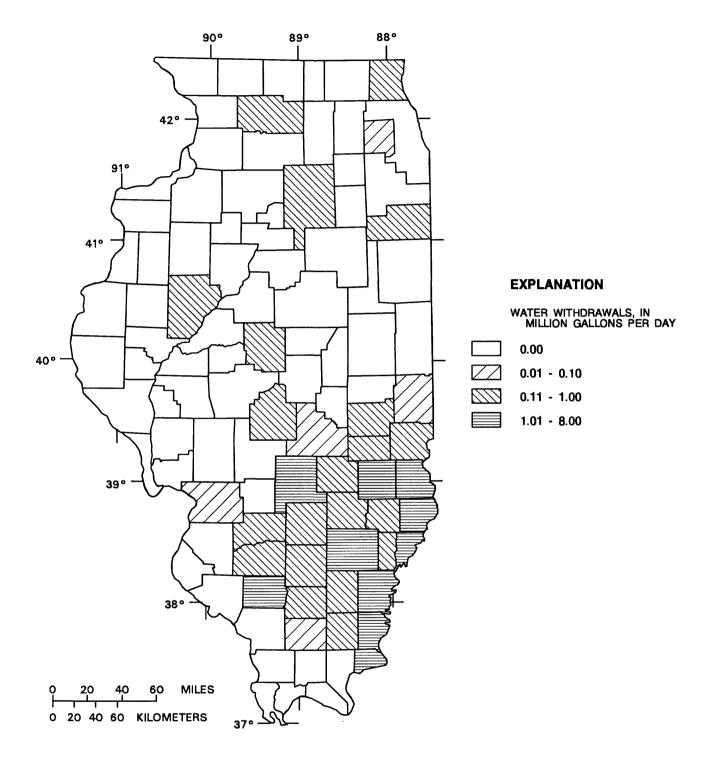


Figure 12. Mining withdrawals of ground water in Illinois, by county, 1990.

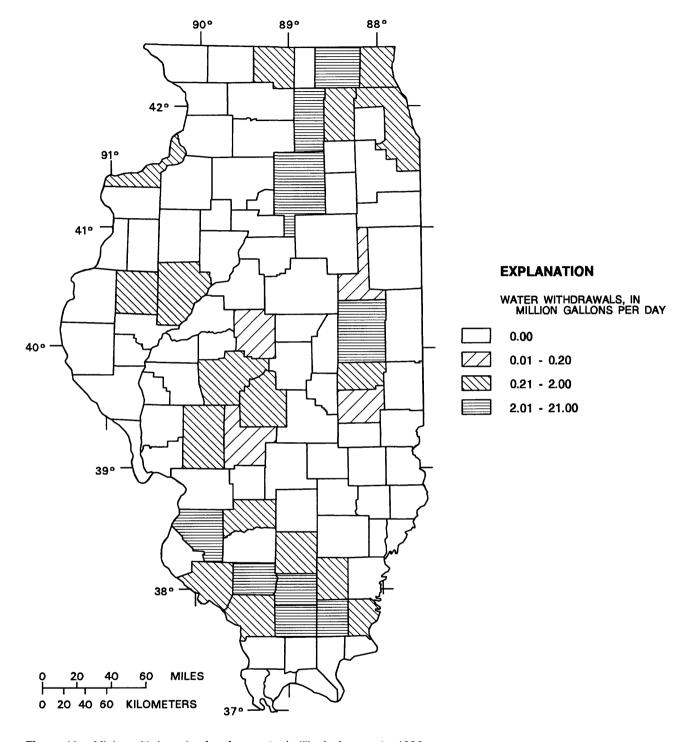


Figure 13. Mining withdrawals of surface water in Illinois, by county, 1990.

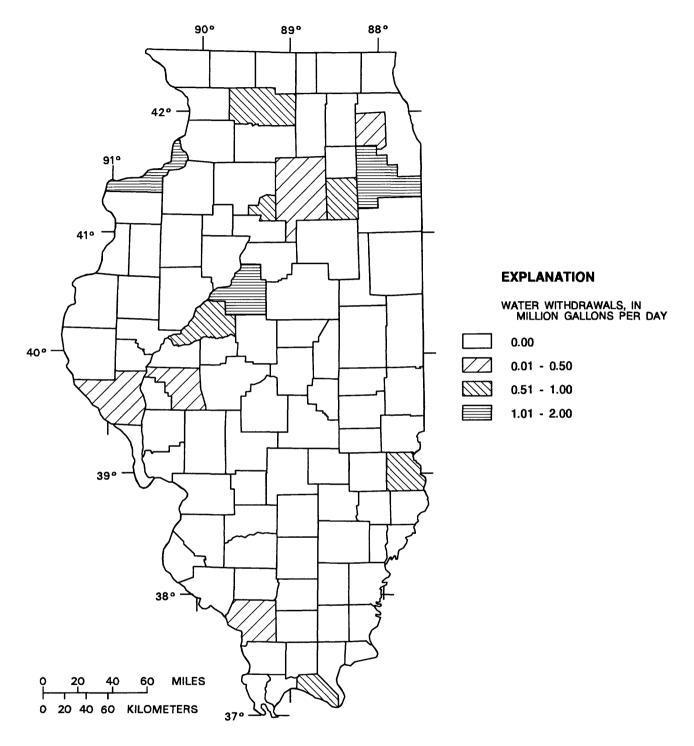


Figure 14. Self-supplied thermoelectric-power withdrawals of ground water in Illinois, by county, 1990.

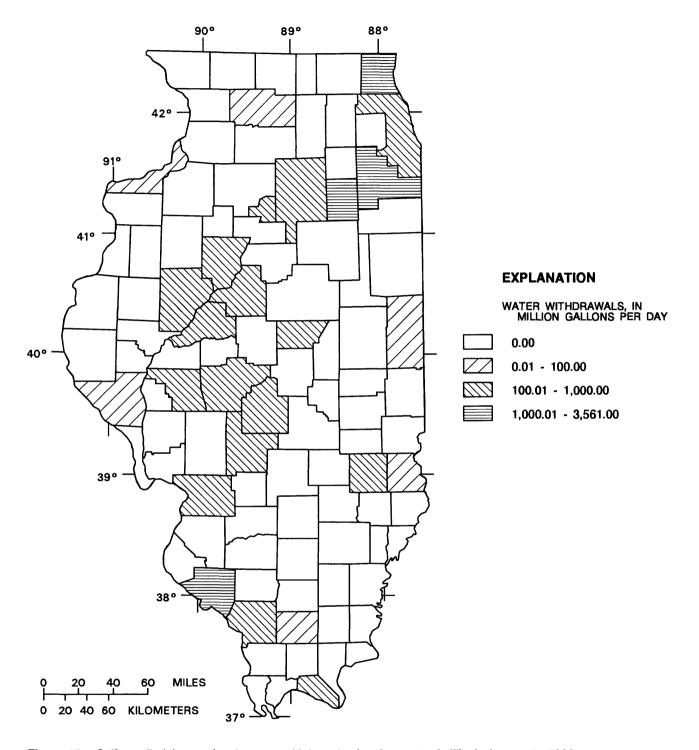


Figure 15. Self-supplied thermoelectric-power withdrawals of surface water in Illinois, by county, 1990.

1988. The total withdrawal of fresh ground water, surface water, and saline ground water, excluding self-supplied thermoelectric-power withdrawals, was about 2,847 Mgal/d. Self-supplied thermoelectric-power withdrawals are not considered in the data totals because the amount of water is so great relative to other water-use categories and the consumptive use is very low. About 936 Mgal/d, or 33 percent, of the total water withdrawn in Illinois, excluding the self-supplied withdrawals for thermoelectric-power generation, was ground water; about 1,911 Mgal/d of surface water was withdrawn, excluding the large self-supplied withdrawals for thermoelectric-power generation. About 25 Mgal/d of the total ground water withdrawn and used in Illinois was saline.

Fifty-eight percent of the ground water withdrawn in 1990 was in Champaign, Cook, Du Page, Jackson, Kane, Lake, McHenry, Madison, Mason, Peoria, Tazewell, Will, and Winnebago Counties (fig. 16). Seventy-six percent of the surface water, excluding self-supplied thermoelectric-power withdrawals, was withdrawn in 1990 in Christian, Cook, Grundy, La Salle, Lake, Randolph, Tazewell, and Will Counties (fig. 17).

Surface-water, ground-water, and total water withdrawals by water-use category for Illinois during 1990 are shown in figure 18. Seventy-four percent of the total surface water, excluding withdrawals for thermoelectric-power generation, was withdrawn by public-supply facilities. The next largest use of surface water was self-supplied industrial withdrawals. Forty-seven percent of the total ground water was withdrawn by public-supply facilities. The next largest use of ground water was for irrigation. Sixty-five percent of the total water withdrawn in Illinois during 1990 was by public-supply facilities. The next largest uses of water in Illinois during 1990 were self-supplied industrial withdrawals and irrigation.

SUMMARY

Water withdrawn from public-supply facilities in Illinois during 1990 totaled about 1,859 Mgal/d. Surface water and ground water were the sources for about 1,415 and 444 Mgal/d, respectively, of the withdrawals for public supply in 1990. The total water obtained from Lake Michigan for public supply was about 1,146 Mgal/d. A total of about 115 Mgal/d was withdrawn for self-supplied domestic purposes. Total self-supplied withdrawals and deliveries from public-

supply facilities for commercial use were about 672 Mgal/d, of which about 173 Mgal/d was self supplied by the commercial establishments. Total irrigation water withdrawals were about 78 Mgal/d. Total livestock and animal specialties withdrawals were about 63 Mgal/d. Total self-supplied withdrawals and deliveries from public-supply facilities for industrial use were about 728 Mgal/d. About 464 Mgal/d was self-supplied withdrawals by industrial facilities. A total of about 94 Mgal/d was withdrawn during mining activities. A total of about 33 Mgal/d of ground water was withdrawn during mining activities; about 25 Mgal/d of the ground water was saline. Total selfsupplied withdrawals and deliveries from publicsupply facilities for thermoelectric-power generation were about 15,170 Mgal/d, about 370 Mgal/d was consumptively used.

The total amount of water withdrawn in Illinois during 1990 was about 18,016 Mgal/d. This amount was about 740 Mgal/d less than in 1988. The total water withdrawal, excluding self-supplied thermoelectric-power withdrawals, was about 2,847 Mgal/d. About 936 Mgal/d, or 33 percent, of the total water withdrawn in Illinois, excluding withdrawals for thermoelectric-power generation, was ground water; about 1,911 Mgal/d of surface water was withdrawn, excluding withdrawals for thermoelectric-power generation. About 25 Mgal/d of the total ground water withdrawn was saline. Seventy-four percent of the total surface water, excluding withdrawals for thermoelectric-power generation, was withdrawn by public-supply facilities. The next largest use of surface water was self-supplied industrial withdrawals. Forty-seven percent of the total ground water was withdrawn by public-supply facilities. The next largest use of ground water was for irrigation. Sixty-five percent of the total water withdrawn, excluding withdrawals for thermoelectricpower generation, in Illinois during 1990 was for public-supply facilities. The next largest uses of water in Illinois during 1990 were self-supplied industrial and irrigation withdrawals.

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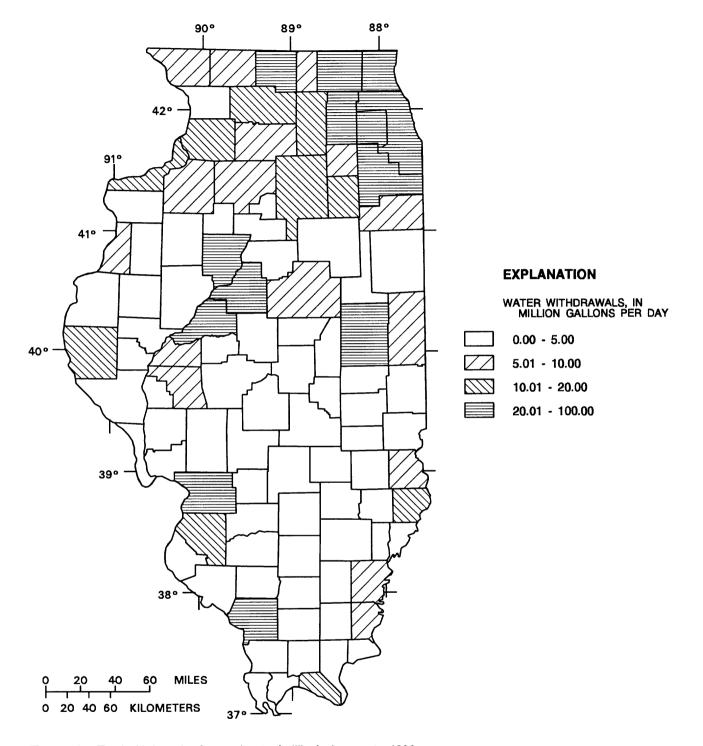


Figure 16. Total withdrawals of ground water in Illinois, by county, 1990.

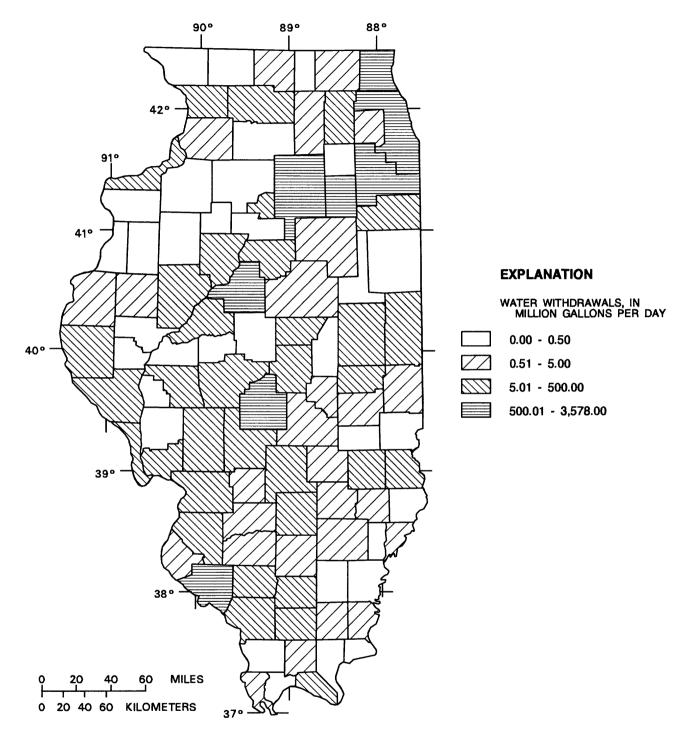
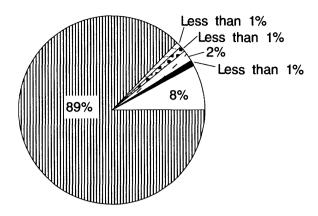


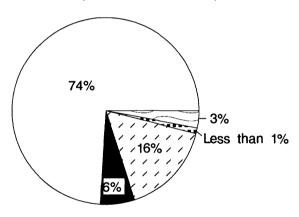
Figure 17. Total withdrawals of surface water in Illinois, by county, 1990.

SURFACE-WATER WITHDRAWALS



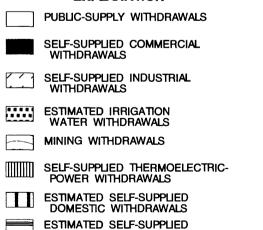
Total = 17,070.83 million gallons per day

SURFACE-WATER WITHDRAWALS (excluding self-supplied thermoelectric-power withdrawals)



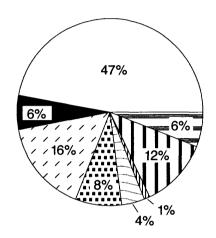
Total = 1,911.12 million gallons per day

EXPLANATION



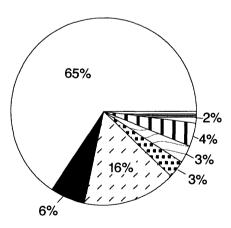
LIVESTOCK WITHDRAWALS

GROUND-WATER WITHDRAWALS



Total = 945.29 million gallons per day

TOTAL WATER WITHDRAWALS (excluding self-supplied thermoelectric-power withdrawals)



Total = 2,847.38 million gallons per day

Figure 18. Surface-water, ground-water, and total water withdrawals by water-use category for Illinois, 1990.

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GLOSSARY

- TERMS USED IN THIS REPORT (from Solley and others, 1993):
- Animal specialties. Water use associated with the production of fish in captivity except fish hatcheries, fur-bearing animals in captivity, horses, rabbits, and pets.
- Commercial water use. Water for motels, hotels, restaurants, office buildings, other commercial facilities, and institutions. The water may be obtained from a public supply or may be self supplied.
- Consumptive use. That part of water withdrawn that is evaporated, transpired, incorporated into products or crops, consumed by humans or livestock, or otherwise removed from the immediate water environment.
- Conveyance loss. Water that is lost in transit from a pipe, canal, conduit, or ditch by leakage or evaporation. Generally, the water is not available for further use; however, leakage from an irrigation ditch, for example, may percolate to a groundwater source and be available for further use.
- **Delivery.** The amount of water delivered to the point of use.
- Domestic water use. Water for household purposes, such as drinking, food preparation, bathing, washing clothes and dishes, flushing toilets, and watering lawns and gardens. Also called residential water use.
- Freshwater. Water that contains less than 1,000 mg/L (milligrams per liter) of dissolved solids; generally, more than 500 mg/L of dissolved solids is undesirable for drinking and many industrial uses.
- Gigawatt-hour (GWh). One billion watt-hours.
 Ground water. Generally all subsurface water as distinct from surface water; specifically, that part of the subsurface water in the saturated zone (a zone in which all voids are filled with water) where the water is under pressure greater than atmospheric.
- Industrial water use. Water used for industrial purposes such as fabrication, processing, washing, and cooling, and includes such industries as steel, chemical and allied products, paper and allied products, mining, and petroleum refining. The water may be obtained from a public supply or may be self supplied.

- Instream use. Water use that is used, but not withdrawn, from a ground- or surface-water source for such purposes as hydroelectric power generation, navigation, water-quality improvement, fish propagation, and recreation. Sometimes called nonwithdrawal use or in-channel use.
- Irrigation water use. Artificial application of water on lands to assist in the growing of crops and pastures or to maintain vegetative growth in recreational lands, such as parks and golf courses.
- Livestock water use. Water for livestock watering, feed lots, dairy operations, fish farming, and other on-farm needs. Livestock as used here includes cattle, sheep, goats, hogs, and poultry.
- Million gallons per day (Mgal/d). A rate of flow of water.
- Mining water use. Water use for the extraction of minerals occurring naturally including solids, such as coal and ores; liquids, such as crude petroleum; and gases, such as natural gas. Also includes uses associated with quarrying, well operations (dewatering), milling (crushing, screening, washing, floatation, and so forth), and other preparations customarily done at the mine site or as part of a mining activity.
- Offstream use. Water withdrawn or diverted from a ground- or surface-water source for public-water supply, industry, irrigation, livestock, thermoelectric-power generation, and other uses. Sometimes called off-channel use or withdrawal use.
- Per capita use. The average amount of water used per person during a standard time period, generally per day.
- **Public supply.** Water withdrawn by public and private water suppliers and delivered to groups of users. Public suppliers provide water for a variety of uses, such as domestic, commercial, thermoelectric-power generation, industrial, and public water use.
- **Public-supply deliveries.** Water provided to users through a public-supply distribution system.
- Saline water. Water that contains more than 1,000 milligrams per liter of dissolved solids.
- **Self-supplied water.** Water withdrawn from a surface- or ground-water source by a user rather than being obtained from a public supply.
- **Surface water.** An open body of water, such as a stream or a lake.

•Thermoelectric-power water use. Water used in the process of the generation of thermoelectric power. The water may be obtained from a public supply or may be self supplied.

Withdrawal. Water removed from the ground or diverted from a surface-water source for use.

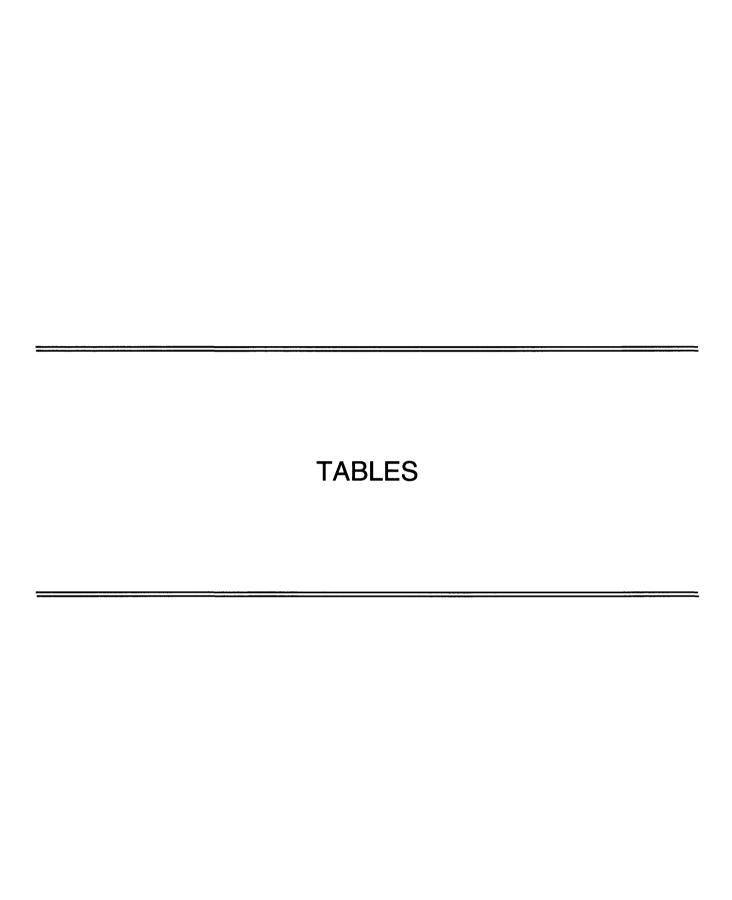


Table 1. Public-supply water withdrawals and domestic water use in Illinois, by county, 1990 [All values in million gallons per day]

| County Ground water vater water Total Public-supplied deliveries Seff-supplied vibrdrawals Total Adams 1.67 7.06 8.73 4.53 0.37 4.90 Alexander .36 1.42 1.78 8.1 0.07 8.8 Bond .07 .94 1.01 .63 .58 1.21 Borea .383 .00 3.83 1.64 1.21 2.28 Bureau 3.18 .00 3.18 2.61 1.10 3.71 Carboun .04 .00 .06 1.11 .64 1.75 Cass 2.97 .04 3.01 .83 .22 1.05 Chartian 1.25 2.16 3.41 1.95 .68 2.63 Chartian 1.25 2.16 3.41 1.95 .68 2.63 Chartian 1.25 2.16 3.41 1.95 .68 2.63 Chartian 2.2 2.27 </th <th></th> <th>Publi</th> <th>c-supply withd</th> <th>irawais</th> <th colspan="8">Domestic water use</th> | | Publi | c-supply withd | irawais | Domestic water use | | | | | | | |
|--|------------|--------|----------------|---------|--------------------|---------------|-------|--|--|--|--|--|
| Adams 1.67 7.06 8.73 4.53 0.37 4.90 Alexander 3.6 1.42 1.78 8.1 07 8.8 Bond 0.77 9.4 1.01 6.3 5.8 1.21 Boone 3.83 0.00 3.83 1.64 1.21 2.22 Brown 0.99 0.00 0.99 .20 .22 .42 Bureau 3.18 0.00 3.18 2.61 1.10 3.71 Calhoun 3.4 0.00 3.18 2.61 1.10 3.71 Calhoun 3.4 0.00 3.18 2.61 1.10 3.71 Calhoun 3.4 0.00 3.18 1.11 6.4 1.21 Carroll 2.97 0.4 3.01 8.3 1.64 1.25 Charkitan 1.25 2.16 3.41 1.95 6.8 2.63 Clark 1.23 0.00 1.23 7.3 4.2 1.15 Clay 0.00 8.8 8.8 5.9 4.4 1.03 Clay 0.00 1.23 7.3 3.1 3.44 3.3.7 Cook 2.04 1.102.83 1.122.87 482.15 47 482.62 Cavford 2.05 0.00 2.05 49.6 43 1.39 De Kalb 7.79 0.00 7.79 4.82 2.16 6.88 Cawford 2.05 0.00 2.25 8.3 4.4 3.77 De Kalb 7.79 0.00 7.79 4.82 2.16 6.88 Dowlets 1.21 0.00 2.21 8.5 4.9 1.34 Douglas 1.24 0.00 2.8 3.4 8.3 3.4 4.3 7.77 De Witt 2.21 0.00 2.21 8.5 4.9 1.34 Douglas 1.24 0.00 1.24 8.1 5.56 1.37 Douglas 1.24 0.00 1.24 8.1 5.6 1.32 Douglas 1.24 0.00 1.25 1.30 1.00 1.01 2.31 Effingham 2.4 2.21 2.45 1.30 1.01 1.01 2.31 Effingham 2.4 2.21 2.45 1.30 1.00 1.00 1.00 1.00 1.00 1.00 1.00 | | Ground | Surface | | Public-supplied | Self-supplied | | | | | | |
| Alexander 36 1.42 1.78 8.1 0.7 8.8 Blond 0.7 9.4 1.01 6.3 5.8 1.21 Boone 3.83 0.0 3.83 1.64 1.21 2.25 Enown 0.9 0.0 0.9 .20 2.2 .42 Bureau 3.18 0.0 3.18 2.61 1.10 3.71 Caihoun 3.4 0.0 3.4 1.13 2.29 4.42 1.01 0.06 1.11 1.13 2.29 4.42 1.01 0.06 1.13 1.25 2.16 1.10 0.06 1.13 1.25 2.16 1.10 0.06 1.13 1.25 2.16 1.10 0.06 1.13 1.25 2.16 1.10 0.25 1.25 1.10 1.23 1.24 1.25 1.25 1.26 1.24 1.25 1.25 1.26 1.25 1.26 1.25 1.26 1.25 1.26 1.25 1.26 1.25 1.26 1.25 1.26 1.25 1.26 1.25 1.26 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 | County | water | water | Total | deliveries | withdrawals | Total | | | | | |
| Alexander 36 1.42 1.78 8.1 0.7 8.8 Blond 0.7 9.4 1.01 6.3 5.8 1.21 Boone 3.83 0.0 3.83 1.64 1.21 2.25 Enown 0.9 0.0 0.9 .20 2.2 .42 Bureau 3.18 0.0 3.18 2.61 1.10 3.71 Caihoun 3.4 0.0 3.4 1.13 2.29 4.42 1.01 0.06 1.11 1.13 2.29 4.42 1.01 0.06 1.13 1.25 2.16 1.10 0.06 1.13 1.25 2.16 1.10 0.06 1.13 1.25 2.16 1.10 0.06 1.13 1.25 2.16 1.10 0.25 1.25 1.10 1.23 1.24 1.25 1.25 1.26 1.24 1.25 1.25 1.26 1.25 1.26 1.25 1.26 1.25 1.26 1.25 1.26 1.25 1.26 1.25 1.26 1.25 1.26 1.25 1.26 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 | A 1 | 1.67 | 7.06 | 0.72 | 4.50 | 0.27 | 4.00 | | | | | |
| Bond 07 94 1.01 63 58 1.21 Brown 3.83 00 3.83 1.04 1.22 2.25 Brown 0.9 0.0 0.99 2.0 2.2 42 Bureau 3.18 0.00 3.34 1.13 2.9 4.2 Carroll 0.00 0.00 3.4 1.13 2.9 4.2 Carroll 0.00 0.00 3.0 1.13 2.2 4.2 Champaign 20.57 0.0 20.57 10.29 2.24 12.3 Charmagin 20.57 0.0 20.57 10.29 2.24 12.3 Clark 1.23 0.0 1.23 .73 .42 1.15 Clark 1.23 0.0 1.23 .73 .42 1.15 Clay 0.0 88 .88 .59 .44 1.03 Clay 0.0 8.8 .88 .59 .9 .44< | | | | | | | | | | | | |
| Boone 3.83 .00 3.83 1.64 1.21 2.25 Bureau 3.18 .00 3.18 2.61 1.10 3.71 Calhoun .34 .00 3.44 .13 .29 .42 Carroll .06 .00 .06 .11 .64 .175 Cars 2.97 .04 3.01 .83 .22 .105 Christian 1.25 2.16 3.41 .195 .68 2.62 Clark 1.23 .00 .123 .73 .42 .115 Clay .00 .88 .88 .59 .44 .103 Clay .00 .88 .88 .59 .44 .103 Clock .004 .1,102.83 .1,122.87 .482.15 .47 .482.62 Cook .20.04 .1,102.83 .1,122.87 .482.15 .47 .482.62 Cowled .20.4 .1,102.83 .1,122.87 | | | | | | | | | | | | |
| Brown .09 .00 .09 .20 .22 .42 Bureau 3.18 .00 3.48 .261 1.10 3.71 Calboun .34 .00 .34 .13 .29 .42 Carroll .06 .00 .06 .111 .64 1.75 Cass .297 .04 3.01 .83 .22 1.05 Christian 1.25 2.16 3.41 1.05 .68 2.23 Clary .00 .88 .88 .59 .42 1.15 Clay .00 .88 .88 .59 .44 1.15 Clay .00 .88 .88 .59 .44 1.15 Clay .00 .88 .88 .59 .44 1.15 Clay .00 .25 .202 .227 .205 .56 .261 Clay .00 .10 .205 .96 .43 <td< td=""><td>Bond</td><td></td><td></td><td></td><td>.63</td><td></td><td></td></td<> | Bond | | | | .63 | | | | | | | |
| Bureau 3.18 | Boone | 3.83 | .00 | 3.83 | 1.64 | 1.21 | 2.85 | | | | | |
| Calboun 34 .00 .34 .13 .29 .42 Carroll .06 .00 .06 .111 .64 .175 Cass 2.97 .04 3.01 .83 .22 .105 Christian 1.25 2.16 3.41 .195 .68 2.63 Clark 1.23 .00 1.23 .73 .42 .115 Clay .00 .88 .88 .59 .44 1.03 Clinton .25 2.02 2.27 .205 .56 2.61 Coles .84 4.19 5.03 3.13 .44 3.37 Cowl 2.04 1,102.83 1,122.87 482.15 .47 482.62 Cowl 2.04 1,102.83 1,122.87 482.15 .47 482.62 Cowl 2.04 1,02.83 1,122.87 482.15 .47 482.62 Cowl 2.05 .00 2.21 .83 | Brown | .09 | | | .20 | | | | | | | |
| Calboun 34 .00 .34 .13 .29 .42 Carroll .06 .00 .06 .111 .64 .175 Cass 2.97 .04 3.01 .83 .22 .105 Christian 1.25 2.16 3.41 .195 .68 2.63 Clark 1.23 .00 1.23 .73 .42 .115 Clay .00 .88 .88 .59 .44 1.03 Clinton .25 2.02 2.27 .205 .56 2.61 Coles .84 4.19 5.03 3.13 .44 3.37 Cowl 2.04 1,102.83 1,122.87 482.15 .47 482.62 Cowl 2.04 1,102.83 1,122.87 482.15 .47 482.62 Cowl 2.04 1,02.83 1,122.87 482.15 .47 482.62 Cowl 2.05 .00 2.21 .83 | Bureau | 3.18 | .00 | 3.18 | 2.61 | 1.10 | 3.71 | | | | | |
| Carroll 06 .00 .06 1.11 .64 1.75 Cass 2.97 .04 3.01 .83 .22 1.05 Champaign 20.57 .00 20.57 10.29 2.24 12.53 Christian 1.25 2.16 3.41 1.95 .68 2.3 Clay .00 .88 .88 .59 .44 1.03 Clay .00 .88 .88 .59 .44 1.03 Coles .84 4.19 5.03 3.13 .44 3.35 Cook 20.04 1,102.83 1,122.87 482.15 .47 482.62 Cowled 20.04 2,21 2. | Calhoun | | | | | | | | | | | |
| Cass 2.97 .04 3.01 .83 .22 1.05 Champaign 20.57 .00 20.57 10.29 2.24 12.53 Christian 1.25 2.16 3.41 1.95 .68 2.63 Clark 1.23 .00 1.23 .73 .42 1.15 Clay .00 .88 .88 .59 .44 1.03 Cloid .25 .202 .22.7 .205 .56 .26 Cloid .20.44 1,102.83 1,122.87 482.15 .47 482.62 Crawford .20.5 .00 .205 .96 .43 1.39 De Witt .22.1 .00 .2.79 .482.15 .47 482.62 Low .21 .00 .2.79 .482.15 .47 482.62 Crawford .20 .20 .2.8 .34 .43 .77 De Witt .2.21 .00 .2.21 .8 | | | | | | | | | | | | |
| Champaign 20.57 .00 20.57 10.29 2.24 12.53 Christian 1.25 2.16 3.41 1.95 .68 2.63 Clark 1.23 .00 1.23 .73 .42 1.15 Clay .00 .88 .88 .59 .44 1.03 Close .84 4.19 5.03 3.13 .44 3.57 Cook 20.04 1,102.83 1,122.87 482.15 .47 482.62 Cowherland .28 .00 .28 .34 .43 .79 Ourberland .28 .00 .28 .34 .43 .79 De Witt .221 .00 .221 .85 .49 1.34 Douglas .1.24 .00 1.24 .81 .56 1.37 De Witt .221 .00 .221 .85 .49 1.34 Edwards .02 .11 .13 .32 | | | | | | | | | | | | |
| Christian 1.25 2.16 3.41 1.95 6.68 2.63 Clark 1.23 .00 1.23 .73 .42 1.15 Clay .00 .88 .88 .59 .44 1.03 Clinton .25 2.02 2.27 2.05 .56 2.61 Coles .84 .419 5.03 3.13 .44 3.57 Cook 20.04 1,102.83 1,122.87 482.15 .47 482.62 Crawford 2.05 .00 2.05 .96 .43 1.39 Cumberland .28 .00 .28 .34 .43 .77 .79 Exalb .779 .00 .7.79 4.82 2.16 6.98 .26 .26 .26 .26 .26 .26 .26 .26 .26 .27 . | | | | | | | | | | | | |
| Clark 1.23 00 1.23 .73 .42 1.15 Clay .90 .88 .88 .59 .44 1.03 Clinton .25 2.02 2.27 2.05 .56 .261 Cook 20.04 1,102.83 1,122.87 482.15 .47 .482.62 Crawford 2.05 .00 2.05 .96 .43 .139 De Witt 2.21 .00 2.21 .85 .49 .134 De Witt 2.21 .00 2.21 .85 .49 .134 Du Page 86.35 .00 86.35 .61.32 .9.30 .70.62 Edwards .02 .11 .13 .32 .9.30 .70.62 Edwards .02 .11 .13 .32 .9.30 .70.62 Effingham .24 .22.11 .2.45 .130 .101 .2.31 Fay .25 .2.21 .2.45 .1.3 | , , | 1 25 | 2 16 | 2.41 | 1.05 | 69 | 2.63 | | | | | |
| Clay .00 .88 .88 .59 .44 1.03 Coles .84 4.19 5.03 3.13 .44 3.57 Cook 20.04 1,102.83 1,122.87 482.15 .47 482.62 Crawford 2.05 .00 2.25 .96 .43 1.39 Cumberland 2.8 .00 2.28 .34 .43 .77 De Kalb 7.79 .00 7.79 .482 .216 .698 De Witt 2.21 .00 2.21 .85 .49 1.34 Douglas 1.24 .00 1.24 .81 .56 .137 Du Page 8.635 .00 .86.35 .6132 .930 .70.62 Edgar .34 1.20 1.54 .89 .49 .138 Edwards .02 .11 .13 .32 .33 .65 Edgar .34 .1.20 1.29 .79 < | | | | | | | | | | | | |
| Clinton 25 2.02 2.27 2.05 56 2.61 Coles 84 4.19 5.03 3.13 44 3.57 Cook 20.04 1,102.83 1,122.87 482.15 47 482.62 Crawford 2.05 .00 2.05 .96 .43 1.39 Crawford 2.25 .00 2.05 .96 .43 1.39 Crawford 2.28 .00 .28 .34 .43 .77 De Kalb 7.79 .00 7.79 4.82 2.16 6.58 .49 1.34 De Witt 2.21 .00 2.21 .85 .49 1.34 Douglas 1.24 .00 1.24 .81 .56 1.37 Du Page 86.35 .00 86.35 61.32 9.30 70.62 .12 | | | | | ./3 | | | | | | | |
| Coles 84 4.19 5.03 3.13 .44 3.57 Cook 20.04 1,102.83 1,122.87 482.15 .47 482.62 Crawford 2.05 .00 2.28 .34 .43 .77 De Kalb 7.79 .00 7.79 .482 .216 .698 De Witt 2.21 .00 2.21 .85 .49 .134 Douglas 1.24 .00 1.24 .81 .56 .137 Du Page 86.35 .00 86.35 .61.32 .930 .70.62 Edgar .34 1.20 1.54 .89 .49 1.38 Edwards .02 .11 .13 .32 .33 .65 Effingham .24 .221 .29 .79 .72 1.51 Ford .1.68 .00 .1.68 .33 .20 .103 Franklin .00 .1.25 .2.25 .2.79 | | | | | | | | | | | | |
| Cook 20.04 1,102.83 1,122.87 482.15 .47 482.62 Crawford 2.05 .96 .43 1.39 Cumberland 2.8 .00 2.05 .96 .43 1.39 De Witt 2.21 .00 2.21 .85 .49 1.34 De Witt 2.21 .00 2.21 .85 .49 1.34 De Witt 2.21 .00 2.21 .85 .49 1.34 De Witt 2.21 .00 2.24 .81 .56 1.37 Du Page 86.35 .00 86.35 61.32 .930 .70.62 Edgar .34 1.20 1.54 .89 .49 1.38 Edwards .02 .11 .13 .32 .33 .65 Effingham .24 .2.21 .2.45 1.30 1.01 .2.31 Fayette .09 1.20 1.29 .79 .72 1.51 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | | | | | | | | |
| Crawford 2.05 .00 2.05 .96 .43 1.39 Cumberland 2.8 .00 2.8 3.4 .43 7.79 De Witt 2.21 .00 7.79 4.82 2.16 6.98 De Witt 2.21 .00 2.21 .85 .49 1.34 De Witt 2.21 .00 2.21 .85 .49 1.34 Douglas 1.24 .00 1.24 .81 .56 1.37 Du Page 86.35 .00 86.35 .61.32 .930 .70.62 Edgar .34 1.20 1.54 .89 .49 1.38 Edwards .02 .11 .13 .32 .33 .60 Effingham .24 2.21 .245 1.30 1.01 2.31 Fayette .09 1.20 1.29 .79 .72 1.51 Ford 1.68 .00 1.68 .83 . | Coles | .84 | 4.19 | 5.03 | 3.13 | .44 | 3.57 | | | | | |
| Crawford 2.05 .00 2.05 .96 .43 .139 Cumberland 2.28 .00 .7.79 .4.82 .2.16 .6.98 De Witt 2.21 .00 7.79 .4.82 .2.16 .6.98 De Witt 2.21 .00 7.79 .4.82 .2.16 .6.98 De Witt 2.21 .00 7.79 .4.82 .2.16 .6.98 De Witt 2.21 .00 1.24 .81 .56 .137 Du Page 86.35 .00 .86.35 .61.32 .9.30 .70.62 Edgar .34 1.20 1.54 .89 .49 1.38 Edwards .02 .11 .13 .32 .33 .60 Effingham .24 2.21 .245 .1.30 1.01 .231 Fayette .09 1.20 1.29 .79 .72 1.51 Ford 1.68 .00 1.68 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<> | | | | | | | | | | | | |
| Cumberland De Kalb 28 .00 .28 .34 .43 .77 De Kalb 7.79 .00 7.79 4.82 2.16 6.98 De Witt 2.21 .00 2.21 .85 .49 1.34 Douglas 1.24 .00 1.24 .81 .56 1.37 Du Page 86.35 .00 86.35 61.32 .930 70.62 Edwards .02 .11 .13 .32 .33 .65 Edwards .02 .11 .13 .32 .33 .65 Effingham .24 2.21 2.45 1.30 1.01 .231 Fayette .09 1.20 1.29 .79 .72 1.51 Ford 1.68 .00 1.68 .83 .20 1.03 Franklin .00 12.52 2.79 .59 .33 Full .00 12.52 2.29 .29 .59 | Crawford | 2.05 | | 2.05 | .96 | .43 | 1.39 | | | | | |
| De Kalb 7.79 .00 7.79 4.82 2.16 6.98 De Witt 2.21 .00 2.21 .85 .49 1.34 Douglas 1.24 .00 1.24 .81 .56 1.37 Du Page 86.35 .00 86.35 .61.32 .9.30 .70.62 Edgar .34 1.20 1.54 .89 .49 1.38 Edwards .02 .11 .13 .32 .33 .65 Effingham .24 2.21 .245 1.30 1.01 .231 Fayette .09 1.20 1.29 .79 .72 1.51 Ford 1.68 .00 1.68 .83 .20 1.01 Fayette .09 1.20 1.29 .79 .72 1.51 Ford 1.68 .00 1.68 .83 .20 1.01 Great .0.60 1.68 .03 .06 .04 <td>Cumberland</td> <td>.28</td> <td>.00</td> <td>.28</td> <td>.34</td> <td>.43</td> <td></td> | Cumberland | .28 | .00 | .28 | .34 | .43 | | | | | | |
| De Witt 2.21 .00 2.21 .85 .49 1.34 Douglas 1.24 .00 1.24 .81 .56 1.37 Du Page 86.35 .00 86.35 61.32 9.30 70.62 Edgar .34 1.20 1.54 .89 .49 1.38 Edwards .02 .11 .13 .32 .33 .65 Effingham .24 2.21 2.45 1.30 1.01 .231 Fayette .09 1.20 1.29 .79 .72 1.51 Ford 1.68 .00 1.68 .83 .20 1.03 Franklin .00 12.52 12.52 2.79 .59 .38 Fulton 1.34 1.38 2.72 2.33 .49 2.82 Gallatin 2.68 .04 2.72 .46 .11 .57 Greene .36 .30 .66 .89 .28 <td></td> <td></td> <td></td> <td>7.79</td> <td></td> <td></td> <td></td> | | | | 7.79 | | | | | | | | |
| Du Page 86.35 .00 86.35 61.32 9.30 70.62 Edgar .34 1.20 1.54 .89 .49 1.38 Edwards .02 .11 .13 .32 .33 .65 Effingham .24 2.21 2.45 1.30 1.01 2.31 Fayette .09 1.20 1.29 .79 .72 1.51 Ford 1.68 .00 1.68 .83 .20 1.03 Franklin .00 12.52 12.52 2.79 .59 .38 Fulton 1.34 1.38 2.72 2.33 .49 2.82 Gallatin 2.68 .04 2.72 .46 .11 .57 Greene .36 .30 .66 .89 .28 1.17 Grundy 2.53 .00 2.53 2.27 .89 3.16 Hamilton .02 .00 .02 .35 .37 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | | | | | | | | |
| Du Page 86.35 .00 86.35 61.32 9.30 70.62 Edgar .34 1.20 1.54 .89 .49 1.38 Edwards .02 .11 .13 .32 .33 .65 Effingham .24 2.21 2.45 1.30 1.01 2.31 Fayette .09 1.20 1.29 .79 .72 1.51 Ford 1.68 .00 1.68 .83 .20 1.03 Franklin .00 12.52 12.52 2.79 .59 .38 Fulton 1.34 1.38 2.72 2.33 .49 2.82 Gallatin 2.68 .04 2.72 .46 .11 .57 Greene .36 .30 .66 .89 .28 1.17 Grundy 2.53 .00 2.53 2.27 .89 3.16 Hamilton .02 .00 .02 .35 .37 <td>Donglas</td> <td>1 24</td> <td>00</td> <td>1 24</td> <td>81</td> <td>56</td> <td>1 37</td> | Donglas | 1 24 | 00 | 1 24 | 81 | 56 | 1 37 | | | | | |
| Edgar 34 1.20 1.54 89 49 1.38 Edwards 0.02 11 1.33 32 33 65 Effingham 24 2.21 2.45 1.30 1.01 2.31 Fayette 0.9 1.20 1.29 .79 .72 1.51 Ford 1.68 .00 1.68 .83 .20 1.03 Franklin .00 12.52 12.52 2.79 .59 3.38 Fulton 1.34 1.38 2.72 2.33 .49 2.82 Gallatin 2.68 .04 2.72 .46 .11 .57 Greene .36 .30 .66 .89 .28 1.17 Grundy 2.53 .00 2.53 2.27 .89 3.16 Hamilton .02 .00 .02 .35 .37 .72 Hancock .21 .104 .1.25 .84 .81 < | | | | | | | | | | | | |
| Edwards .02 .11 .13 .32 .33 .65 Effingham .24 2.21 2.45 1.30 1.01 2.31 Fayette .09 1.20 1.29 .79 .72 1.51 Ford 1.68 .00 1.68 .83 .20 1.03 Franklin .00 12.52 12.52 2.79 .59 3.38 Fulton 1.34 1.38 2.72 2.33 .49 2.82 Gallatin 2.68 .04 2.72 .46 .11 .57 Greene .36 .30 .66 .89 .28 1.17 Grundy 2.53 .00 2.53 .227 .89 3.16 Hamilton .02 .00 .02 .35 .37 .72 Hancock .21 1.04 1.25 .84 .81 1.65 Hardin .12 .15 .27 .38 .06 | | | | | | | | | | | | |
| Effingham .24 2.21 2.45 1.30 1.01 2.31 Fayette .09 1.20 1.29 .79 .72 1.51 Ford 1.68 .00 1.68 .83 .20 1.03 Franklin .00 12.52 12.52 2.79 .59 3.38 Fulton 1.34 1.38 2.72 2.33 .49 2.82 Gallatin 2.68 .04 2.72 .46 .11 .57 Greene .36 .30 .66 .89 .28 1.17 Grundy 2.53 .00 2.53 2.27 .89 3.16 Hamiton .02 .00 .02 .35 .37 .72 Hardin .12 .15 .27 .38 .06 .44 Henderson 5.90 .00 5.90 .21 .46 .67 Henry 4.76 .00 4.76 3.93 1.45 | | | | | | | | | | | | |
| Fayette 0.99 1.20 1.29 7.79 7.72 1.51 Ford 1.68 .00 1.68 .83 .20 1.03 Franklin .00 12.52 12.52 2.79 .59 3.38 Fulton 1.34 1.38 2.72 2.33 .49 2.82 Gallatin 2.68 .04 2.72 .46 .11 .57 Greene .36 .30 .66 .89 .28 1.17 Grundy 2.53 .00 2.53 2.27 .89 3.16 Hamilton .02 .00 .02 .35 .37 .72 Hancock .21 1.04 1.25 .84 .81 1.65 Hardin .12 .15 .27 .38 .06 .44 Henderson .5.90 .00 5.90 .21 .46 .67 Henny 4.76 .00 4.76 3.93 1.45 5.38 Iroquois 2.17 .00 2.17 1.50 .79 2.29 Jackson .07 .793 8.00 4.34 2.66 4.60 Jasper .40 .00 .40 .27 .52 .79 Jefferson .00 1.28 1.28 2.28 .70 2.98 Jersey .90 .00 .90 .90 1.40 .16 1.56 Jo Daviess 2.44 .00 2.44 1.33 1.05 2.38 Johnson .02 .62 .64 .32 .46 .78 Kane 28.82 9.08 37.90 25.89 3.49 29.38 Kankakee 2.23 11.29 13.52 5.14 2.17 .731 Kendall 2.01 .00 2.01 1.16 2.65 3.81 Kankakee 1.20 1.00 2.01 1.16 2.65 3.81 Kankake 1.20 4.113 5.833 35.70 10.85 46.55 La Salle 10.83 3.41 14.24 8.45 1.36 9.81 Lawrence 1.68 .00 1.68 .79 .34 1.13 Lewence 1.68 .00 3.94 2.45 1.10 3.55 Livingston 1.71 2.05 3.76 2.02 1.01 3.03 Logan 3.30 .00 3.30 1.80 5.51 2.31 | | | .11 | | | | | | | | | |
| Ford 1.68 .00 1.68 .83 .20 1.03 Franklin .00 12.52 12.52 2.79 .59 3.38 Fulton 1.34 1.38 2.72 2.33 .49 2.82 Gallatin 2.68 .04 2.72 .46 .11 .57 Greene .36 .30 .66 .89 .28 1.17 Grundy 2.53 .00 .253 2.27 .89 3.16 Hamilton .02 .00 .02 .35 .37 .72 Hancock .21 1.04 1.25 .84 .81 1.65 Hardin .12 .15 .27 .38 .06 .44 Henderson 5.90 .00 5.90 .21 .46 .67 Henry 4.76 .00 4.76 3.93 1.45 5.38 Iroquois 2.17 .00 2.17 1.50 .79 | Effingham | .24 | 2.21 | 2.45 | 1.30 | 1.01 | 2.31 | | | | | |
| Franklin .00 12.52 12.52 2.79 .59 3.38 Fulton 1.34 1.38 2.72 2.33 .49 2.82 Gallatin 2.68 .04 2.72 .46 .11 .57 Greene .36 .30 .66 .89 .28 1.17 Grundy 2.53 .00 2.53 2.27 .89 3.16 Hamilton .02 .00 .02 .35 .37 .72 Hancock .21 1.04 1.25 .84 .81 1.65 Hardin .12 .15 .27 .38 .06 .44 Henderson 5.90 .00 5.90 .21 .46 .67 Henry 4.76 .00 4.76 3.93 1.45 5.38 Iroquois 2.17 .00 2.17 1.50 .79 2.29 Jackson .07 7.93 8.00 4.34 .26 | | | | | | | | | | | | |
| Fulton 1.34 1.38 2.72 2.33 49 2.82 Gallatin 2.68 .04 2.72 .46 .11 .57 Greene .36 .30 .66 .89 .28 1.17 Grundy 2.53 .00 2.53 2.27 .89 3.16 Hamilton .02 .00 .02 .35 .37 .72 Hancock .21 1.04 1.25 .84 .81 1.65 Hardin .12 .15 .27 .38 .06 .44 Henderson 5.90 .00 5.90 .21 .46 .67 Hentry 4.76 .00 4.76 .393 1.45 5.38 Iroquois 2.17 .00 2.17 1.50 .79 2.29 Jackson .07 7.93 8.00 4.34 .26 4.60 Jasper .40 .00 .40 .27 .52 | | | | | | | | | | | | |
| Gallatin 2.68 .04 2.72 .46 .11 .57 Greene .36 .30 .66 .89 .28 1.17 Grundy 2.53 .00 2.53 2.27 .89 3.16 Hamilton .02 .00 .02 .35 .37 .72 Hancock .21 1.04 1.25 .84 .81 1.65 Hardin .12 .15 .27 .38 .06 .44 Henderson 5.90 .00 5.90 .21 .46 .67 Henry 4.76 .00 4.76 3.93 1.45 5.38 Iroquois 2.17 .00 2.17 1.50 .79 2.29 Jackson .07 7.93 8.00 4.34 .26 4.60 Jasper .40 .00 .40 .27 .52 .79 Jefferson .00 1.28 1.28 2.28 .70 | Franklin | | | | | | | | | | | |
| Greene .36 .30 .66 .89 .28 1.17 Grundy 2.53 .00 2.53 2.27 .89 3.16 Hamilton .02 .00 .02 .35 .37 .72 Hancock .21 1.04 1.25 .84 .81 1.65 Hardin .12 .15 .27 .38 .06 .44 Henderson 5.90 .00 5.90 .21 .46 .67 Hentry 4.76 .00 4.76 3.93 1.45 5.38 Iroquois 2.17 .00 2.17 1.50 .79 2.29 Jackson .07 7.93 8.00 4.34 .26 4.60 Jasper .40 .00 .40 .27 .52 .79 Jefferson .00 1.28 1.28 2.28 .70 2.98 Jersey .90 .00 .90 1.40 .16 | | 1.34 | 1.38 | 2.72 | 2.33 | .49 | 2.82 | | | | | |
| Grundy 2.53 .00 2.53 2.27 .89 3.16 Hamilton .02 .00 .02 .35 .37 .72 Hancock .21 1.04 1.25 .84 .81 1.65 Hardin .12 .15 .27 .38 .06 .44 Henderson 5.90 .00 5.90 .21 .46 .67 Henry 4.76 .00 4.76 3.93 1.45 5.38 Iroquois 2.17 .00 2.17 1.50 .79 2.29 Jackson .07 7.93 8.00 4.34 .26 4.60 Jasper .40 .00 .40 .27 .52 .79 Jefferson .00 1.28 1.28 2.28 .70 2.98 Jersey .90 .00 .90 1.40 .16 1.56 Jo Daviess 2.44 .00 2.44 1.33 1.05 | Gallatin | 2.68 | .04 | 2.72 | .46 | .11 | .57 | | | | | |
| Hamilton .02 .00 .02 .35 .37 .72 Hancock .21 1.04 1.25 .84 .81 1.65 Hardin .12 .15 .27 .38 .06 .44 Henderson 5.90 .00 5.90 .21 .46 .67 Henry 4.76 .00 4.76 .393 1.45 5.38 Iroquois 2.17 .00 2.17 1.50 .79 2.29 Jackson .07 7.93 8.00 4.34 .26 4.60 Jasper .40 .00 .40 .27 .52 .79 Jefferson .00 1.28 1.28 2.28 .70 2.98 Jersey .90 .00 .90 1.40 .16 1.56 Jo Daviess 2.44 .00 2.44 1.33 1.05 2.38 Johnson .02 .62 .64 .32 .46 | Greene | .36 | .30 | .66 | .89 | .28 | 1.17 | | | | | |
| Hamilton .02 .00 .02 .35 .37 .72 Hancock .21 1.04 1.25 .84 .81 1.65 Hardin .12 .15 .27 .38 .06 .44 Henderson 5.90 .00 5.90 .21 .46 .67 Henry 4.76 .00 4.76 .393 1.45 5.38 Iroquois 2.17 .00 2.17 1.50 .79 2.29 Jackson .07 7.93 8.00 4.34 .26 4.60 Jasper .40 .00 .40 .27 .52 .79 Jefferson .00 1.28 1.28 2.28 .70 2.98 Jersey .90 .00 .90 1.40 .16 1.56 Jo Daviess 2.44 .00 2.44 1.33 1.05 2.38 Johnson .02 .62 .64 .32 .46 | Grundy | 2.53 | .00 | 2.53 | 2.27 | .89 | 3.16 | | | | | |
| Hancock Hardin .21 1.04 1.25 .84 .81 1.65 Hardin .12 .15 .27 .38 .06 .44 Henderson 5.90 .00 5.90 .21 .46 .67 Henry 4.76 .00 4.76 3.93 1.45 5.38 Iroquois 2.17 .00 2.17 1.50 .79 2.29 Jackson .07 7.93 8.00 4.34 .26 4.60 Jasper .40 .00 .40 .27 .52 .79 Jefferson .00 1.28 1.28 2.28 .70 2.98 Jersey .90 .00 .90 1.40 .16 1.56 Jo Daviess 2.44 .00 2.44 1.33 1.05 2.38 Johnson .02 .62 .64 .32 .46 .78 Kane 28.82 .908 37.90 25.89 3 | | | | | | | | | | | | |
| Hardin .12 .15 .27 .38 .06 .44 Henderson 5.90 .00 5.90 .21 .46 .67 Henry 4.76 .00 4.76 3.93 1.45 5.38 Iroquois 2.17 .00 2.17 1.50 .79 2.29 Jackson .07 7.93 8.00 4.34 .26 4.60 Jasper .40 .00 .40 .27 .52 .79 Jefferson .00 1.28 1.28 2.28 .70 2.98 Jersey .90 .00 .90 1.40 .16 1.56 Jo Daviess 2.44 .00 2.44 1.33 1.05 2.38 Johnson .02 .62 .64 .32 .46 .78 Kane 28.82 9.08 37.90 25.89 3.49 29.38 Kankakee 2.23 11.29 13.52 5.14 2 | | | | | | | | | | | | |
| Henry 4.76 .00 4.76 3.93 1.45 5.38 Iroquois 2.17 .00 2.17 1.50 .79 2.29 Jackson .07 7.93 8.00 4.34 .26 4.60 Jasper .40 .00 .40 .27 .52 .79 Jefferson .00 1.28 1.28 2.28 .70 2.98 Jersey .90 .00 .90 1.40 .16 1.56 Jo Daviess 2.44 .00 2.44 1.33 1.05 2.38 Johnson .02 .62 .64 .32 .46 .78 Kane 28.82 9.08 37.90 25.89 3.49 29.38 Kankakee 2.23 11.29 13.52 5.14 2.17 7.31 Kendall 2.01 .00 2.01 1.16 2.65 3.81 Knox 1.39 .00 1.39 3.63 .51 4.14 Lake 17.20 41.13 58.33 35.70 | | | | | | | | | | | | |
| Henry 4.76 .00 4.76 3.93 1.45 5.38 Iroquois 2.17 .00 2.17 1.50 .79 2.29 Jackson .07 7.93 8.00 4.34 .26 4.60 Jasper .40 .00 .40 .27 .52 .79 Jefferson .00 1.28 1.28 2.28 .70 2.98 Jersey .90 .00 .90 1.40 .16 1.56 Jo Daviess 2.44 .00 2.44 1.33 1.05 2.38 Johnson .02 .62 .64 .32 .46 .78 Kane 28.82 9.08 37.90 25.89 3.49 29.38 Kankakee 2.23 11.29 13.52 5.14 2.17 7.31 Kendall 2.01 .00 2.01 1.16 2.65 3.81 Knox 1.39 .00 1.39 3.63 .51 4.14 Lake 17.20 41.13 58.33 35.70 | Henderson | 5.90 | 00 | 5.90 | 21 | 46 | 67 | | | | | |
| Iroquois 2.17 .00 2.17 1.50 .79 2.29 Jackson .07 7.93 8.00 4.34 .26 4.60 Jasper .40 .00 .40 .27 .52 .79 Jefferson .00 1.28 1.28 2.28 .70 2.98 Jersey .90 .00 .90 1.40 .16 1.56 Jo Daviess 2.44 .00 2.44 1.33 1.05 2.38 Johnson .02 .62 .64 .32 .46 .78 Kane 28.82 9.08 37.90 25.89 3.49 29.38 Kankakee 2.23 11.29 13.52 5.14 2.17 7.31 Kendall 2.01 .00 2.01 1.16 2.65 3.81 Knox 1.39 .00 1.39 3.63 .51 4.14 Lake 17.20 41.13 58.33 35.70 | | | | | | | | | | | | |
| Jackson .07 7.93 8.00 4.34 .26 4.60 Jasper .40 .00 .40 .27 .52 .79 Jefferson .00 1.28 1.28 2.28 .70 2.98 Jersey .90 .00 .90 1.40 .16 1.56 Jo Daviess 2.44 .00 2.44 1.33 1.05 2.38 Johnson .02 .62 .64 .32 .46 .78 Kane 28.82 9.08 37.90 25.89 3.49 29.38 Kankakee 2.23 11.29 13.52 5.14 2.17 7.31 Kendall 2.01 .00 2.01 1.16 2.65 3.81 Knox 1.39 .00 1.39 3.63 .51 4.14 Lake 17.20 41.13 58.33 35.70 10.85 46.55 La Salle 10.83 3.41 14.24 8.45 | | | | | | | | | | | | |
| Jasper .40 .00 .40 .27 .52 .79 Jefferson .00 1.28 1.28 2.28 .70 2.98 Jersey .90 .00 .90 1.40 .16 1.56 Jo Daviess 2.44 .00 2.44 1.33 1.05 2.38 Johnson .02 .62 .64 .32 .46 .78 Kane 28.82 9.08 37.90 25.89 3.49 29.38 Kankakee 2.23 11.29 13.52 5.14 2.17 7.31 Kendall 2.01 .00 2.01 1.16 2.65 3.81 Knox 1.39 .00 1.39 3.63 .51 4.14 Lake 17.20 41.13 58.33 35.70 10.85 46.55 La Salle 10.83 3.41 14.24 8.45 1.36 9.81 Lawrence 1.68 .00 1.68 .79 | | | | | | | | | | | | |
| Jefferson .00 1.28 1.28 2.28 .70 2.98 Jersey .90 .00 .90 1.40 .16 1.56 Jo Daviess 2.44 .00 2.44 1.33 1.05 2.38 Johnson .02 .62 .64 .32 .46 .78 Kane 28.82 9.08 37.90 25.89 3.49 29.38 Kankakee 2.23 11.29 13.52 5.14 2.17 7.31 Kendall 2.01 .00 2.01 1.16 2.65 3.81 Knox 1.39 .00 1.39 3.63 .51 4.14 Lake 17.20 41.13 58.33 35.70 10.85 46.55 La Salle 10.83 3.41 14.24 8.45 1.36 9.81 Lawrence 1.68 .00 1.68 .79 .34 1.13 Lee 3.94 .00 3.94 2.45 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | | | | | | | | |
| Jersey .90 .00 .90 1.40 .16 1.56 Jo Daviess 2.44 .00 2.44 1.33 1.05 2.38 Johnson .02 .62 .64 .32 .46 .78 Kane 28.82 9.08 37.90 25.89 3.49 29.38 Kankakee 2.23 11.29 13.52 5.14 2.17 7.31 Kendall 2.01 .00 2.01 1.16 2.65 3.81 Knox 1.39 .00 1.39 3.63 .51 4.14 Lake 17.20 41.13 58.33 35.70 10.85 46.55 La Salle 10.83 3.41 14.24 8.45 1.36 9.81 Lawrence 1.68 .00 1.68 .79 .34 1.13 Lee 3.94 .00 3.94 2.45 1.10 3.55 Livingston 1.71 2.05 3.76 2.02< | • | .40 | .00 | .40 | .21 | .52 | .79 | | | | | |
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| Johnson .02 .62 .64 .32 .46 .78 Kane 28.82 9.08 37.90 25.89 3.49 29.38 Kankakee 2.82 9.08 37.90 25.89 3.49 29.38 Kankakee 2.23 11.29 13.52 5.14 2.17 7.31 Kendall 2.01 .00 2.01 1.16 2.65 3.81 Knox 1.39 .00 1.39 3.63 .51 4.14 Lake 17.20 41.13 58.33 35.70 10.85 46.55 La Salle 10.83 3.41 14.24 8.45 1.36 9.81 Lawrence 1.68 .00 1.68 .79 .34 1.13 Lee 3.94 .00 3.94 2.45 1.10 3.55 Livingston 1.71 2.05 3.76 2.02 1.01 3.03 Logan 3.30 .00 3.30 1 | | | .00 | | | | | | | | | |
| Kane 28.82 9.08 37.90 25.89 3.49 29.38 Kankakee 2.23 11.29 13.52 5.14 2.17 7.31 Kendall 2.01 .00 2.01 1.16 2.65 3.81 Knox 1.39 .00 1.39 3.63 .51 4.14 Lake 17.20 41.13 58.33 35.70 10.85 46.55 La Salle 10.83 3.41 14.24 8.45 1.36 9.81 Lawrence 1.68 .00 1.68 .79 .34 1.13 Lee 3.94 .00 3.94 2.45 1.10 3.55 Livingston 1.71 2.05 3.76 2.02 1.01 3.03 Logan 3.30 .00 3.30 1.80 .51 2.31 | Jo Daviess | 2.44 | .00 | 2.44 | | 1.05 | | | | | | |
| Kane 28.82 9.08 37.90 25.89 3.49 29.38 Kankakee 2.23 11.29 13.52 5.14 2.17 7.31 Kendall 2.01 .00 2.01 1.16 2.65 3.81 Knox 1.39 .00 1.39 3.63 .51 4.14 Lake 17.20 41.13 58.33 35.70 10.85 46.55 La Salle 10.83 3.41 14.24 8.45 1.36 9.81 Lawrence 1.68 .00 1.68 .79 .34 1.13 Lee 3.94 .00 3.94 2.45 1.10 3.55 Livingston 1.71 2.05 3.76 2.02 1.01 3.03 Logan 3.30 .00 3.30 1.80 .51 2.31 | Johnson | .02 | .62 | .64 | .32 | .46 | .78 | | | | | |
| Kendall 2.01 .00 2.01 1.16 2.65 3.81 Knox 1.39 .00 1.39 3.63 .51 4.14 Lake 17.20 41.13 58.33 35.70 10.85 46.55 La Salle 10.83 3.41 14.24 8.45 1.36 9.81 Lawrence 1.68 .00 1.68 .79 .34 1.13 Lee 3.94 .00 3.94 2.45 1.10 3.55 Livingston 1.71 2.05 3.76 2.02 1.01 3.03 Logan 3.30 .00 3.30 1.80 .51 2.31 | Kane | 28.82 | 9.08 | 37.90 | 25.89 | 3.49 | 29.38 | | | | | |
| Kendall 2.01 .00 2.01 1.16 2.65 3.81 Knox 1.39 .00 1.39 3.63 .51 4.14 Lake 17.20 41.13 58.33 35.70 10.85 46.55 La Salle 10.83 3.41 14.24 8.45 1.36 9.81 Lawrence 1.68 .00 1.68 .79 .34 1.13 Lee 3.94 .00 3.94 2.45 1.10 3.55 Livingston 1.71 2.05 3.76 2.02 1.01 3.03 Logan 3.30 .00 3.30 1.80 .51 2.31 | Kankakee | 2.23 | 11.29 | 13.52 | 5.14 | 2.17 | 7.31 | | | | | |
| Knox 1.39 .00 1.39 3.63 .51 4.14 Lake 17.20 41.13 58.33 35.70 10.85 46.55 La Salle 10.83 3.41 14.24 8.45 1.36 9.81 Lawrence 1.68 .00 1.68 .79 .34 1.13 Lee 3.94 .00 3.94 2.45 1.10 3.55 Livingston 1.71 2.05 3.76 2.02 1.01 3.03 Logan 3.30 .00 3.30 1.80 .51 2.31 | | | | | | | | | | | | |
| Lake 17.20 41.13 58.33 35.70 10.85 46.55 La Salle 10.83 3.41 14.24 8.45 1.36 9.81 Lawrence 1.68 .00 1.68 .79 .34 1.13 Lee 3.94 .00 3.94 2.45 1.10 3.55 Livingston 1.71 2.05 3.76 2.02 1.01 3.03 Logan 3.30 .00 3.30 1.80 .51 2.31 | | | ññ | 1 39 | | | | | | | | |
| La Salle 10.83 3.41 14.24 8.45 1.36 9.81 Lawrence 1.68 .00 1.68 .79 .34 1.13 Lee 3.94 .00 3.94 2.45 1.10 3.55 Livingston 1.71 2.05 3.76 2.02 1.01 3.03 Logan 3.30 .00 3.30 1.80 .51 2.31 | | | | | | | | | | | | |
| Lee 3.94 .00 3.94 2.45 1.10 3.55 Livingston 1.71 2.05 3.76 2.02 1.01 3.03 Logan 3.30 .00 3.30 1.80 .51 2.31 | | | | | | | | | | | | |
| Lee 3.94 .00 3.94 2.45 1.10 3.55 Livingston 1.71 2.05 3.76 2.02 1.01 3.03 Logan 3.30 .00 3.30 1.80 .51 2.31 | Laurance | 1 40 | M | 1 60 | 70 | 2.4 | 1 12 | | | | | |
| Livingston 1.71 2.05 3.76 2.02 1.01 3.03 Logan 3.30 .00 3.30 1.80 .51 2.31 | | | | 2.00 | | | | | | | | |
| Logan 3.30 .00 3.30 1.80 .51 2.31 | | | | | | | | | | | | |
| Logan 3.50 .00 3.30 1.80 .51 2.31 McDonough 1.45 1.73 3.18 2.13 .41 2.54 | | | | | | | | | | | | |
| McDonough 1.45 1.73 3.18 2.13 .41 2.54 | | | | | | | 2.51 | | | | | |
| | McDonough | 1.45 | 1.73 | 3.18 | 2.13 | .41 | 2.54 | | | | | |

Table 1. Public-supply water withdrawals and domestic water use in Illinois, by county, 1990—Continued

| | | c-supply witho | Irawals | | nestic water use | |
|------------------------|-------------|----------------|---------------|-----------------|------------------|-------------|
| 0 | Ground | Surface | - | Public-supplied | Self-supplied | T. A. I |
| County | water | water | Total | deliveries | withdrawals | Total |
| McHenry | 14.52 | 0.00 | 14.52 | 9.36 | 6.65 | 16.01 |
| McLean | 5.78 | 3.35 | 9.13 | 8.30 | 1.12 | 9.42 |
| Macon | 1.31 | 32.56 | 33.87 | 8.51 | .67 | 9.18 |
| Macoupin | .14 | 3.62 | 3.76 | 2.62 | 1.10 | 3.72 |
| Madison | 12.28 | 43.83 | 56.11 | 17.40 | 1.16 | 18.56 |
| Marion | .03 | 6.87 | 6.90 | 2.44 | .61 | 3.05 |
| Marshall | 1.74 | .00 | 1.74 | .70 | .30 | 1.00 |
| Mason | 1.16 | .00 | 1.16 | .72 | .60 | 1.32 |
| Massac | 1.66 | .00 | 1.66 | .94 | .27 | 1.21 |
| Menard | .71 | .00 | .71 | .53 | .39 | .92 |
| Mercer | .95 | .00 | .95 | .93 | .96 | 1.89 |
| Monroe | .13 | .49 | .62 | 1.01 | .71 | 1.72 |
| Montgomery | .58 | 2.22 | 2.80 | 1.53 | .85 | 2.38 |
| Morgan | .07 | .69 | .76 | 2.23 | .52 | 2.75 |
| Moultrie | 1.08 | .00 | 1.08 | .73 | .29 | 1.02 |
| Ogle | 5.62 | .00 | 5.62 | 2.57 | 2.05 | 4.62 |
| Peoria | 19.77 | 6.92 | 26.69 | 13.02 | .85 | 13.87 |
| Perry | .07 | .48 | .55 | .91 | .79 | 1.70 |
| Piatt | 1.93 | .00 | 1.93 | .83 | .38 | 1.21 |
| Pike | .95 | .51 | 1.46 | .87 | .44 | 1.31 |
| Pope | .00 | .08 | .08 | .34 | .04 | .38 |
| Pulaski | .50 | .00 | .50 | .44 | .22 | .66 |
| Putnam | .49 | .00 | .49 | .43 | .18 | .61 |
| Randolph | .77 | 2.60 | 3.37 | 2.14 | .62 | 2.76 |
| Richland | .13 | 1.44 | 1.57 | .80 | .32 | 1.12 |
| Rock Island | 2.80 | 14.65 | 17.45 | 14.56 | .95 | 15.51 |
| St. Clair | .19 | 19.77 | 19.96 | 17.29 | 3.11 | 20.40 |
| Saline | .00 | .34 | .34 | 1.96 | .27 | 2.23 |
| Sangamon | 2.31 | 31.66 | 33.97 | 12.06 | 1.38 | 13.44 |
| Schuyler | .64 | .00 | .64 | .32 | .26 | .58 |
| Scott | .98 1.07 | .00 | .98 | .23 | .22 | .45 |
| Shelby | | 1.46 | 2.53 | .78 | .88 | 1.66 |
| Stark | .70 4.80 | .00 .00 | .70 4.80 | .31 3.88 | .19 | .50 4.96 |
| Stephenson Tazewell | 15.69 | .58 | 4.80 16.27 | 3.88 8.60 | 1.08 .75 | 9.35 |
| Union | 1.25 | .15 | 1.40 | .91 | .48 | 1.39 |
| Vermilion | 1.47 | 9.99 | 11.46 | 5.18 | 1.30 | 6.48 |
| Wabash | .69 | 1.13 | 1.82 | .83 | .28 | 1.11 |
| Warren | 2.36 | .00 | 2.36 | 1.08 | .41 | 1.49 |
| Washington | .11 | .70 | .81 | 1.00 | .22 | 1.22 |
| Wayne | .10 | 1.15 | 1.25 | .73 | .68 | 1.41 |
| White | 1.39 | .00 | 1.39 | .98 | .39 | 1.37 |
| Whiteside | 5.03 | .00 | 5.03 | 4.10 | 2.27 | 6.37 |
| Will | 33.83 | .00 | 33.83 | 21.79 | 10.68 | 32.47 |
| Williamson | .00 | 2.36 | 2.36 | 4.47 | .14 | 4.61 |
| Winnebago | 36.76 | 0.00 | 36.76 | 19.05 | 6.32 | 25.37 |
| Woodford | 1.64 | 5.68 | 7.32 | 1.49 | 1.04 | 2.53 |
| Total | 443.70 | 1,415.49 | 1,859.19 | 903.56 | 115.31 | 1,018.87 |
| 2000 | 115.75 | 1,110.17 | 1,007.17 | 705.50 | 113.31 | 1,010.07 |

Table 2. Public-supply withdrawals and domestic water use in Illinois, by hydrologic unit, 1990 [All values in million gallons per day]

| | | ic-supply withd | rawals | | Oomestic water use | |
|------------|--------|-----------------|----------|-----------------|--------------------|----------|
| Hydrologic | Ground | Surface | | Public-supplied | Self-supplied | |
| unit | water | water | Total | deliveries | withdrawals | Total |
| 04040001 | 0.00 | 0.00 | 0.00 | 15.91 | 0.02 | 15.93 |
| 04040001 | .10 | .00 | .10 | 19.21 | 1.45 | 20.66 |
| 04060200 | .00 | 1,146.33 | 1,146.33 | .00 | .00 | |
| | | | | | | .00 |
| 05120108 | .07 | .37 | .44 | .99 | .26 | 1.25 |
| 05120109 | 3.61 | 9.62 | 13.23 | 8.88 | 2.08 | 10.96 |
| 05120111 | 2.83 | 1.20 | 4.03 | 1.29 | .67 | 1.96 |
| 05120112 | 4.36 | 1.75 | 6.11 | 6.49 | 2.67 | 9.16 |
| 05120113 | 2.01 | 1.24 | 3.25 | 1.45 | .61 | 2.06 |
| 05120114 | 1.22 | 8.09 | 9.31 | 3.61 | 2.59 | 6.20 |
| 05120115 | .12 | .17 | .29 | 2.10 | .95 | 3.05 |
| 05140203 | .39 | .23 | .62 | .93 | .26 | 1.19 |
| 05140204 | 2.23 | 1.04 | 3.27 | 4.51 | .87 | 5.38 |
| 05140206 | 2.18 | 2.04 | 4.22 | 1.36 | .62 | 1.98 |
| 07060005 | 3.66 | .00 | 3.66 | 2.10 | 1.43 | 3.53 |
| 07080101 | .88 | .00 14.65 | | 4.29 | .91 | |
| 07080101 | .00 | | 15.53 | 4.29 | .91 | 5.20 |
| 07080104 | 9.65 | .58 | 10.23 | 6.49 | 2.37 | 8.86 |
| 07090001 | .65 | .00 | .65 | .41 | .15 | .56 |
| 07090003 | 5.22 | .00 | 5.22 | 10.13 | 3.22 | 13.35 |
| 07090004 | .45 | .00 | .45 | 2.17 | .71 | 2.88 |
| 07090005 | 50.12 | .00 | 50.12 | 18.52 | 7.46 | 25.98 |
| 07090006 | 14.00 | .00 | 14.00 | 17.46 | 7.47 | 24.93 |
| 07090007 | 3.49 | .00 | 3.49 | 9.63 | 2.22 | 11.85 |
| 07110001 | 1.31 | 7.23 | 8.54 | 2.37 | .42 | 2.79 |
| 07110004 | 1.07 | .00 | 1.07 | 1.86 | .58 | 2.44 |
| 07110009 | 4.66 | 8.91 | 13.57 | 3.78 | .40 | 4.18 |
| 07120001 | 3.28 | 11.26 | 14.54 | 12.10 | 5.65 | 17.75 |
| 07120002 | 2.56 | .00 | 2.56 | 2.53 | 1.14 | 3.67 |
| 07120003 | 11.08 | .00 | 11.08 | 223.02 | 1.63 | 224.65 |
| 07120004 | 132.84 | .00 | 132.84 | 263.73 | 18.11 | 281.84 |
| 07120005 | 4.38 | .03 | 4.41 | 5.50 | 2.96 | 8.46 |
| 07120006 | 25.28 | .00 | 25.28 | 70.59 | 8.27 | 78.86 |
| 07120007 | 32.73 | 9.08 | 41.81 | 28.99 | 6.09 | 35.08 |
| | | | | | | |
| 07130001 | 27.30 | 6.84 | 34.14 | 8.81 | 2.26 | 11.07 |
| 07130002 | 1.92 | 5.46 | 7.38 | 4.28 | 1.30 | 5.58 |
| 07130003 | 19.80 | 1.54 | 21.34 | 13.64 | 1.53 | 15.17 |
| 07130004 | 4.84 | 9.60 | 14.44 | 5.70 | 1.19 | 6.89 |
| 07130005 | 4.89 | .00 | 4.89 | 11.26 | 1.67 | 12.93 |
| 07130006 | 7.14 | 32.56 | 39.70 | 11.70 | 1.72 | 13.42 |
| 07130007 | 1.26 | 33.76 | 35.02 | 7.20 | 1.39 | 8.59 |
| 07130008 | 2.57 | .11 | 2.68 | 6.60 | 1.22 | 7.82 |
| 07130009 | 11.30 | .00 | 11.30 | 9.86 | 1.98 | 11.84 |
| 07130010 | 1.60 | 1.93 | 3.53 | 2.75 | .95 | 3.70 |
| 07130011 | 3.08 | 1.42 | 4.50 | 5.27 | 1.45 | 6.72 |
| 07130011 | .28 | 3.02 | 3.30 | 2.76 | 1.04 | 3.80 |
| 07140101 | 7.70 | 51.76 | 59.46 | 13.58 | 2.10 | 15.68 |
| | | | | | | |
| 07140105 | 1.59 | 2.02 | 3.61 | 2.30 | .53 | 2.83 |
| 07140106 | .08 | 24.43 | 24.51 | 12.31 | 2.30 | 14.61 |
| 07140108 | .40 | .10 | .50 | .87 | .31 | 1.18 |
| 07140201 | 19.69 | 1.33 | 21.02 | 4.63 | 1.83 | 6.46 |
| 07140202 | .34 | 7.60 | 7.94 | 4.03 | 1.66 | 5.69 |
| 07140203 | .58 | 3.75 | 4.33 | 2.14 | 1.17 | 3.31 |
| 07140204 | .91 | 4.44 | 5.35 | 21.47 | 3.47 | 24.94 |
| Total | 443.70 | 1,415.49 | 1,859.19 | 903.56 | 115.31 | 1,018.87 |
| | | | | 71.1 11.1 | | |

Table 3. Population served by public-supply facilities and self-supplied population in Illinois, by county, 1990

| | Dublic curried | Colf currelled | | Public-supplied | Self-supplied |
|------------|----------------------------|--------------------------|----------------|-----------------|----------------|
| County | Public-supplied population | Self-supplied population | County | population | population |
| . 1 | 60.050 | ~ 100 | Mallana | 110,690 | 72.560 |
| Adams | 60,970 | 5,120 | McHenry | 110,680 | 72,560 |
| Alexander | 9,710 | 920 | McLean | 114,060 | 15,120 |
| Bond | 7,070 | 7,920 | Macon | 108,190 | 9,020 |
| Boone | 17,630 | 13,180 | Macoupin | 32,610 | 15,070 |
| Brown | 2,810 | 3,030 | Madison | 233,410 | 15,830 |
| Bureau | 24,630 | 11,060 | Marion | 32,620 | 8,940 |
| Calhoun | 1,300 | 4,020 | Marshall | 8,760 | 4,090 |
| Carroll | 10,360 | 6,440 | Mason | 8,200 | 8,070 |
| Cass | 10,420 | 3,020 | Massac | 11,290 | 3,460 |
| Champaign | 141,980 | 31,040 | Menard | 5,860 | 5,300 |
| Christian | 25,140 | 9,280 | Mercer | 7,650 | 9,640 |
| Clark | 9,820 | 6,100 | Monroe | 13,110 | 9,310 |
| Clay | 8,080 | 6,380 | Montgomery | 19,120 | 11,610 |
| Clinton | 26,560 | 7,380 | Morgan | 29,300 | 7,100 |
| Coles | 45,270 | 6,370 | Moultrie | 9,670 | 4,260 |
| Cook | 5,099,990 | 5,080 | Ogle | 25,400 | 20,560 |
| Crawford | | 6,230 | Peoria | 171,350 | 11,480 |
| | 13,230 | 6,230 | Perry | 10,960 | 10,450 |
| Cumberland | 4,450 | 6,220 | Piatt | 10,230 | 5,320 |
| De Kalb | 54,350 | 23,580 | Pike | 11,520 | 6,060 |
| De Witt | 9,880 | 6,640 | FIRE | | |
| Douglas | 11,240 | 8,220 | Pope | 3,900 | 470 |
| Du Page | 680,130 | 101,540 | Pulaski | 4,560 | 2,960 |
| Edgar | 12,460 | 7,140 | Putnam | 3,910 | 1,820 |
| Edwards | 3,240 | 4,200 | Randolph | 26,350 | 8,230 |
| Effingham | 16,960 | 14,740 | Richland | 11,800 | 4,740 |
| Fayette | 10,430 | 10,460 | Rock Island | 139,240 | 9,480 |
| Ford | 11,540 | 2,740 | St. Clair | 222,340 | 40,510 |
| Franklin | 32,870 | 7,450 | Saline | 23,160 | 3,390 |
| Fulton | 31,310 | 6,770 | Sangamon | 159,510 | 18,880 |
| Gallatin | 5,570 | 1,340 | Schuyler | 3,950 | 3,550 |
| Greene | 11,440 | 3,880 | Scott | 2,570 | 3,070 |
| Grundy | 22,600 | 9,740 | Shelby | 9,350 | 12,910 |
| Hamilton | 3,780 | 4,720 | Stark | 3,950 | 2,580 |
| Hancock | 10,090 | 11,280 | Stephenson | 37,250 | 10,800 |
| Hardin | 4,380 | 810 | Tazewell | 113,630 | 10,060 |
| Henderson | 1,660 | 6,440 | Union | 11,350 | 6,270 |
| Henry | 36,650 | 14,510 | Vermilion | 70,170 | 18,090 |
| Iroquois | 19,840 | 10,950 | Wabash | 9,540 | 3,570 |
| Jackson | 56,630 | 4,440 | Warren | 13,500 | 5,680 |
| Jasper | 3,020 | 7,590 | Washington | 12,070 | 2,890 |
| | | | | 8,710 | |
| Jefferson | 28,160 | 8,860 | Wayne White | 11,600 | 8,530 4,920 |
| Jersey | 18,390 | 2,150 | | | |
| Jo Daviess | 11,280 | 10,540 | Whiteside | 37,450 | 22,740 |
| Johnson | 5,250 | 6,100 | Will | 240,740 | 116,570 |
| Kane | 279,370 | 38,100 | Williamson | 55,870 | 1,860 |
| Kankakee | 66,210 | 30,050 | Winnebago | 189,560 | 63,350 |
| Kendall | 10,430 | 28,980 | Woodford | 18,600 | 14,050 |
| Knox | 49,360 | 7,030 | Total | 10,059,670 | 1,370,920 |
| Lake | 397,980 | 118,440 | | -0,000,00 | 1,570,720 |
| La Salle | 92,080 | 14,830 | | | |
| Lawrence | 10,930 | 5,040 | | | |
| Lee | 23,340 | 11,050 | | | |
| Livingston | 25,300 | 14,000 | | | |
| Logan | 23,920 | 6,880 | | | |
| McDonough | 29,560 | 5,680 | | | |
| | 29,300 | 2,000 | | | |

Table 4. Population served by public-supply facilities and self-supplied population in Illinois, by hydrologic unit, 1990

| Hydrologic unit | Public-supplied population | Self-supplied population |
|--------------------|----------------------------|--------------------------|
| 0.40.40001 | 160.740 | 170 |
| 04040001 | 169,740 | 170 |
| 04040002 | 204,610 | 15,900 |
| 04060200 | 0 | 0 |
| 05120108 | 13,340 | 3,570 |
| 05120109 | 119,790 | 28,870 |
| 05120111 | 18,090 | 9,860 |
| 05120112 | 90,760 | 38,520 |
| 05120113 | 18,310 | 7,980 |
| 05120114 | 49,030 | 36,370 |
| 05120114 | 27,410 | 12,660 |
| 03120113 | 27,410 | 12,000 |
| 05140203 | 11,280 | 3,290 |
| 05140204 | 56,180 | 10,870 |
| 05140206 | 16,910 | 8,110 |
| 07060005 | 20,340 | 14,340 |
| 07080101 | 41,800 | 9,070 |
| 07080104 | 69,480 | 27,740 |
| 07090001 | 4,000 | 1,570 |
| 07090003 | 98,570 | 32,200 |
| 07090004 | 21,020 | 7,140 |
| 07090005 | 180,250 | 75,100 |
| 07000006 | 192.620 | 90.650 |
| 07090006 | 182,630 | 80,650 |
| 07090007 | 93,870 | 22,170 |
| 07110001 | 32,040 | 5,830 |
| 07110004 | 25,040 | 7,960 |
| 07110009 | 50,350 | 5,490 |
| 07120001 | 139,230 | 66,700 |
| 07120002 | 34,040 | 15,690 |
| 07120003 | 2,378,860 | 17,800 |
| 07120004 | 2,810,130 | 197,680 |
| 07120005 | 60,660 | 33,610 |
| 07120006 | 750,930 | 90,190 |
| 07120007 | 307,700 | 66,490 |
| 07130001 | 100,540 | 26,180 |
| 07130002 | 52,340 | 16,850 |
| 07130002 | 179,460 | 20,600 |
| 07130004 | 74,820 | 16.050 |
| | 146,410 | 16,050 |
| 07130005 | | 22,140 |
| 07130006 | 155,330 | 23,660 |
| 07130007 | 95,640 | 19,260 |
| 0/130008 | 87,480 | 16,450 |
| 07130009 | 129,380 | 26,710 |
| 07130010 | 36,950 | 13,150 |
| 07130011 | 70,080 | 19,810 |
| 07130012 | 36,460 | 14,310 |
| 07140101 | 177,940 | 27,980 |
| 07140105 | 29,520 | 6,990 |
| | | |
| 07140106 | 154,700 | 30,720 |
| 07140108 | 11,060 | 4,180 |
| 07140201 | 63,910 | 26,210 |
| 07140202 | 54,800 | 23,680 |
| 07140203 | 27,870 | 15,950 |
| 07140204 | 278,590 | 46,450 |
| 07140204 | | , |

Table 5. Commercial self-supplied withdrawals and deliveries from public-supply facilities for commercial use in Illinois, by county, 1990
[All values are in millions of gallons per day]

| | Self-s | supplied withdr | awals | Deliveries from | Total self- supplied withdrawals and |
|----------------------|------------|-----------------|-------------|--------------------|---|
| | Ground | Surface | | public-supply | public-supply |
| County | water | water | Total | facilities | deliveries |
| Adams | 0.00 | 0.00 | 0.00 | 1.71 | 1.71 |
| Alexander | .07 | .00 | .07 | .14 | .21 |
| Bond | .00 | .00 | .00 | .16 | .16 |
| Boone | .00 | .00 | .00 | .11 | .11 |
| Brown | .00 | .00 | .00 | .12 | .12 |
| Bureau | .44 | .28 | .72 | .30 | 1.02 |
| Calhoun | .58 | 9.05 | 9.63 | .03 | 9.66 |
| Carroll | .14 | 7.73 | 7.87 | .11 | 7.98 |
| Cass | .00 | .03 | .03 | .07 | .10 |
| Champaign | 1.64 | .00 | 1.64 | 3.68 | 5.32 |
| Christian | .01 | .00 | .01 | .09 | .10 |
| Clark | .00 | .00 | .00 | .11 | .11 |
| Clay | .00 | .00 | .00 | .14 | .14 |
| Clinton | .00 | .00 | .00 | .04 | .04 |
| Coles | .00 | .00 | .00 | 2.67 | 2.67 |
| Cook | 3.55 | 70.57 | 74.12 | 370.60 | 444.72 |
| Crawford | .00 | .00 | .00 | .56 | .56 |
| Cumberland | .00 | .00 | .00 | .02 | .02 |
| De Kalb | .03 | .00 | .03 | 1.51 | 1.54 |
| De Witt | .04 | .00 | .04 | .01 | .05 |
| Douglas | .01 | .00 | .01 | .17 | .18 |
| Du Page | 1.13 | 4.91 | 6.04 | 10.91 | 16.95 |
| Edgar | .00 | .00 | .00 | .01 | .01 |
| Edwards Effingham | .00 .00 | .00 .00 | .00 .00 | .11 .06 | .11 .06 |
| • | .00 | 4.05 | | | |
| Fayette Ford | .00 .00 | .00 | 4.05 .00 | .89 | 4.94 .13 |
| Franklin | .00 | .00 | .00 | .13 | .13 |
| Fulton | .00 | 2.52 | 2.52 | .13 .58 | 3.10 |
| Gallatin | .00 | .00 | .00 | .36 .04 | .04 |
| Carana | 00 | .00 | 00 | | 15 |
| Greene Grundy | .00 .00 | .00 | .00 .00 | .15 .09 | .15 .09 |
| Hamilton | .00 | .00 | .00 | .00 | .00 |
| Hancock | .00 | .00 | .00 | .05 | .05 |
| Hardin | .00 | .00 | .00 | .01 | .01 |
| Henderson | .00 | .00 | .00 | .01 | .01 |
| Henry | .01 | .00 | .01 | .20 | .21 |
| Iroquois | .00 | .00 | .00 | .15 | .15 |
| Jackson | 24.53 | .00 | 24.53 | .29 | 24.82 |
| Jasper | .00 | .00 | .00 | .00 | .00 |
| Jefferson | .00 | 1.89 | 1.89 | .08 | 1.97 |
| Jersey | .04 | 7.35 | 7.39 | .06 | 7.45 |
| Jo Daviess | .23 | .08 | .31 | .20 | .51 |
| Johnson | .00 | .00 | .00 | .00 | .00 |
| Kane | .11 | .87 | .98 | 4.19 | 5.17 |
| Kankakee | .05 | .00 | .05 | 2.61 | 2.66 |
| Kendall | .01 | .00 | .01 | .29 | .30 |
| Knox | .00 | .00 | .00 | .65 | .65 |
| Lake | .82 | .00 | .82 | 8.90 | 9.72 |
| La Salle | .05 | .00 | .05 | 1.02 | 1.07 |
| | | -00 | .02 | | 1.07 |

Table 5. Commercial self-supplied withdrawals and deliveries from public-supply facilities for commercial use in Illinois, by county, 1990—Continued

| | | | | Deliveries | Total self- supplied withdrawals |
|------------------------|------------------------------|------------------|-------------|-----------------------------|--|
| | | supplied withdra | wals | from | and |
| County | Ground water | Surface water | Total | public-supply facilities | public-supply deliveries |
| Lawrence | 0.00 | 0.00 | 0.00 | 0.12 | 0.12 |
| Lee | .16 | .00 | .16 | .40 | .56 |
| Livingston | .00 | .00 | .00 | .28 | .28 |
| Logan McDanauah | .00 | .00 | .00 | .91 | .91 |
| McDonough | .00 | .00 | .00 | 1.34 | 1.34 |
| McHenry | .34 | .03 | .37 | 1.44 | 1.81 |
| McLean | .11 | .00 | .11 | 3.58 | 3.69 |
| Macon | .08 | .00 | .08 | 20.68 | 20.76 |
| Macoupin | .00 | .00 | .00 | .06 | .06 |
| Madison | 2.29 | .00 | 2.29 | 4.35 | 6.64 |
| Marion | .00 | .00 | .00 | .91 | .91 |
| Marshall | .00 | .00 | .00 | .07 | .07 |
| Mason | 6.75 | .00 | 6.75 | .05 | 6.80 |
| Massac Menard | 1. 3 9 . 00 | .00 .00 | 1.39 .00 | .01 .05 | 1.40 .05 |
| Menard | | | .00 | .05 | .03 |
| Mercer | .00 | .00 | .00 | .11 | .11 |
| Monroe | .00 | .00 | .00 | .09 | .09 |
| Montgomery | .00 | .00 | .00 | .05 | .05 |
| Morgan Maultria | .00 .00 | .00 .99 | .00 .99 | .66 .02 | .66 1.01 |
| Moultrie | | | .99 | | |
| Ogle | .01 | .00 | .01 | 55 | 56 |
| Peoria | .00 | .00 | .00 | 7.40 | 7.40 |
| Perry | .00 | .00 | .00 | .00 | .00 |
| Piatt Pike | .02 .00 | .00 .00 | .02 .00 | .03 .17 | .05 .17 |
| Pope | .00 | .00 | .00 | .00 | .00 |
| Pulaski | .16 | .00 | .16 | .11 | .27 |
| Putnam | .00 | .79 | .79 | .06 | .85 |
| Randolph | .00 | .00 | .00 | .21 | .21 |
| Richland | .00 | .00 | .00 | .45 | .45 |
| Rock Island | .01 | .02 | .03 | .34 | .37 |
| St. Clair | 8.18 | .00 | 8.18 | 4.50 | 12.68 |
| Saline | .00 | .00 | .00 | 1.37 | 1.37 |
| Sangamon | .00 | .00 | .00 | 7.43 | 7.43 |
| Schuyler | .00 | .00 | .00 | .01 | .01 |
| Scott | .00 | .00 | .00 | .02 | .02 |
| Shelby | .00 | .00 | .00 | .01 | .01 |
| Stark | .00 .01 | .00 | .00 | .01 | .01 .03 |
| Stephenson Tazewell | .01 | .00 .00 | .01 .01 | .02 1.39 | .03 1.40 |
| Union | .85 | .00 | .85 | .07 | .92 |
| Vermilion | .01 | .00 | .01 | 1.93 | .92 1.94 |
| Wabash | .02 | .00 | .02 | .15 | .17 |
| Warren | .00 | .00 | .00 | .11 | .11 |
| Washington | .00 | .00 | .00 | .26 | .26 |
| Wayne | .00 | .00 | .00 | .04 | .04 |
| White | .00 | .00 | .00 | .02 | .02 |
| Whiteside | .00 | .18 | .18 | .53 | .71 |
| Will | .32 | .00 | .32 | 6.66 | 6.98 |
| Williamson | .00 | 7.74 | 7.74 | .68 | 8.42 |
| Winnebago | .08 | .00 | .08 | 14.14 | 14.22 |
| Woodford | | | .00 | .21 | .21 |
| Total | 54.29 | 119.08 | 173.37 | 498.22 | 671.59 |

Table 6. Commercial self-supplied withdrawals and deliveries from public-supply facilities for commercial use in Illinois, by hydrologic unit, 1990 [All values are in millions of gallons per day]

| | | | | Deliveries | Total self- supplied withdrawals |
|----------------------|-----------------|------------------|-------------|-----------------------------|--|
| | | supplied withdra | wals | from | and |
| Hydrologic unit | Ground water | Surface water | Total | public-supply facilities | public-supply deliveries |
| 04040001 | 0.00 | 0.00 | 0.00 | 8.29 | 8.29 |
| 04040002 | .00 | 14.12 | 14.12 | 8.72 | 22.84 |
| 04060200 | .00 | .00 | .00 | .00 | .00 |
| 05120108 | .00 | .00 | .00 | .35 | .35 |
| 05120109 | 1.64 | .00 | 1.64 | 3.17 | 4.81 |
| 05120111 | .00 | .00 | .00 | .25 | .25 |
| 05120112 05120113 | .01 .02 | .00 .00 | .01 .02 | 3.01 .29 | 3.02 .31 |
| 05120113 | .00 | .00 | .02 | .29 .81 | .31 .81 |
| 05120114 | .00 | .00 | .00 | .37 | .37 |
| 05140203 | .00 | .00 | .00 | .02 | .02 |
| 05140204 | .00 | .00 | .00 | 1.63 | 1.63 |
| 05140206 | 1.39 | .00 | 1.39 | .07 | 1.46 |
| 07060005 07080101 | .37 .01 | 7.81 .02 | 8.18 .03 | .26 .42 | 8.44 .45 |
| 07080104 | .00 | .00 | .00 | .36 | .36 |
| 07090001 | .00 | .00 | .00 | .27 | .27 |
| 07090003 | .01 | .00 | .01 | 4.84 | 4.85 |
| 07090004 | .00 | .00 | .00 | 1.54 | 1.54 |
| 07090005 | .20 | .18 | .38 | 7.35 | 7.73 |
| 07090006 | .03 | .00 | .03 | 4.17 | 4.20 |
| 07090007 | .05 | .00 | .05 | .48 | .53 |
| 07110001 07110004 | .00 .58 | .00 3.21 | .00 3.79 | .81 .56 | .81 4.35 |
| 07110004 | .08 | .00 | .08 | 1.79 | 1.87 |
| 07120001 | .06 | .00 | .06 | 4.50 | 4.56 |
| 07120002 | .00 | .00 | .00 | .61 | .61 |
| 07120003 | .21 | 6.61 | 6.82 | 115.28 | 122.10 |
| 07120004 | 4.94 | 50.65 | 55.59 | 232.22 | 287.81 |
| 07120005 | .01 | .00 | .01 | .90 | .91 |
| 07120006 | .99 | .03 | 1.02 | 29.43 | 30.45 |
| 07120007 | .14 | 5.25 | 5.39 | 5.40 | 10.79 |
| 07130001 07130002 | .49 .00 | 1.07 .00 | 1.56 .00 | 1.65 .59 | 3.21 .59 |
| 07130002 | 6.77 | 2.52 | 9.29 | 6.40 | 15.69 |
| 07130004 | .00 | .00 | .00 | 1.00 | 1.00 |
| 07130005 | .00 | .00 | .00 | 2.60 | 2.60 |
| 07130006 | .10 | .00 | .10 | 15.00 | 15.10 |
| 07130007 07130008 | .01 .00 | .00 .00 | .01 .00 | 1.13 7.58 | 1.14 7.58 |
| 07130009 | .16 | .00 | .16 | 9.13 | 9.29 |
| 07130009 | .00 | .00 | .00 | 1.32 | 1.32 |
| 07130010 | .05 | 12.94 | 12.99 | 1.30 | 14.29 |
| 07130012 | .00 | .00 | .00 | .12 | .12 |
| 07140101 | 10.38 | .00 | 10.38 | 5.53 | 15.91 |
| 07140105 | .85 | .00 | .85 | .17 | 1.02 |
| 07140106 | 24.50 | 9.63 | 34.13 | .96 20 | 35.09 |
| 07140108 07140201 | .24 .00 | .00 .99 | .24 .99 | .20 1.84 | .44 2.83 |
| 07140201 | .00 | 4.05 | .99 4.05 | 1.48 | 5.53 |
| 07140203 | .00 | .00 | .00 | .19 | .19 |
| 07140204 | | | | 1.86 | 1.86 |
| Total | 54.29 | 119.08 | 173.37 | 498.22 | 671.59 |

Table 7. Estimated irrigation water withdrawals, irrigated land, and estimated water withdrawals for livestock and animal specialties in Illinois, by county, 1990 [Mgal/d, million gallons per day]

| for nal | Total | 1.25 .05 44. 29 | .94 .32 .1.23 .47 .28 | .36 .38 .28 1.28 | .07 .48 .36 1.12 | .30 .03 .41 .37 | .70 .27 .18 .76 | .66 .15 .24 1.06 .13 |
|---|---------------------------|--|--|--|--|---|---|---|
| Total withdrawals for livestock and animal specialties, in Mgal/d | Surface water | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0.0.00.00 | 9,9,5,9,6 | 00.00.00.00.19 | 60.00.00 | 00.00.00.00.00.00 | 00.00.00.00.00.00.00.00.00.00.00.00.00. |
| Total w livesto special | Ground | 1.25 1.05 1.24 1.29 | .94 121 145 128 | 36 36 128 22 | .07 .48 .34 .1.12 | .27 .03 .41 .36 | .70 .26 .18 .73 | .66 .15 .21 .106 |
| ated for animal in Mgal/d | Surface water | 9 88888 | 96.50.00 | 88288 | . 1902 1902 1903 1903 | 6,9,9,5,9 | 90.000.00 | 0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0. |
| Estimated withdrawals for animal specialties, in Mgal/d | Ground | 0.0 0.0 0.0 0.0 0.0 0.0 | 20.0.0.00.00.00.00.00.00.00.00.00.00.00. | 99999 | .00 .00 .00 .00 .00 | .002.00.05 .002.00.00.00 | .000 .000 .000 .000 | .01 .02 .02 .03 |
| Estimated livestock water | withdrawals, in Mgal/d | 2.1. 2.4.4.4.5.2 8.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2 | .92 1.28 2.45 2.65 2.65 2.65 2.65 2.65 2.65 2.65 2.6 | 23 35 1.27 21 | .02 .33 .1.10 .1.2 | | .40 .171 .12 | .65 .14 .20 .09 |
| Irrigated | land, in acres | 140 700 0 260 0 | 2,270 0 2,800 3,220 2,660 | 190 5,390 0 540 0 | 15,410 320 20 0 590 | 0 9,420 0 120 200 | 250 300 630 680 5,760 | 1,210 0 140 1,160 |
| on s, | Total | 0.03 3.5 00.00.00.00 | .00 .00 .129 .81 | 2.08 2.07 2.00 2.00 | 3.85 .12 .00 .00 .13 | 2.36 2.36 .00 .07 | .10 .09 .35 .16 | 84.00.00.00.00.00.00.00.00.00.00.00.00.00 |
| Estimated irrigation water withdrawals, in Mgal/d | Surface water | 9.8.8.8.8 8.8.8.8.8 | 86. 11. 86. | 88888 | 88888 | 88888 | 0.93.89.90. | 88888 |
| Estim water | Ground | 0.03 0.00 0.00 | .49 .00 .49 .1.13 | 2.07 .00 .27 .00 | 3.85 .12 .00 .00 .13 | .00 .00 .00 .07 | .00 .09 .00 3.24 | . 48 . 00 . 08 . 00 . 00 |
| | County | Adams Alexander Bond Boone Brown | Bureau Calhoun Carroll Cass Champaign | Christian Clark Clay Clinton Coles | Cook Crawford Cumberland De Kalb De Witt | Douglas Du Page Edgar Edwards Effingham | Fayette Ford Franklin Fulton Gallatin | Greene Grundy Hamilton Hancock Hardin |

Table 7. Estimated irrigation water withdrawals, irrigated land, and estimated water withdrawals for livestock and animal specialties in Illinois, by county, 1990—Continued

| | 1 | notes in potential | 2 | | Cotimotor | 100 | Rotimotod | TotoL | Total with drawn later | 10, |
|--|-----------------------------------|------------------------------|---|--------------------------------------|-----------------------------------|----------------------------------|--|----------------------------------|--|--|
| | wate | water withdrawals, in Mgal/d | als, | Irrigated | livestock water | withdrawals specialties | withdrawals for animal specialties, in Mgal/d | livesto specia | livestock and animal specialties, in Mgal/d | nal al/d |
| County | Ground | Surface water | Total | land, in acres | withdrawals, in Mgal/d | Ground | Surface water | Ground | Surface water | Total |
| Henderson Henry Iroquois Jackson Jasper | 1.24 .65 .11 .23 | 0.00 .00 .08 .15 | 1.24 .65 .19 .38 | 5,150 3,050 630 770 30 | 0.48 2.04 .72 .34 .55 | 0.01 .02 .02 .04 .01 | 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | 0.49 2.06 .74 .38 | 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | 0.49 2.06 .74 1.23 |
| Jefferson Jersey Jo Daviess Johnson Kane | 88882 | 8888 | 8888 | 0 0 0 0 2,630 | 35 1.63 30 55 | 29.29.59.59 | 9.9.9.9.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0 | 37 35 1.65 32 .60 | 9.9.9.9.9. | .37 .35 1.65 .34 |
| Kankakee Kendall Knox Lake La Salle | 3.71 .11 .01 .00 | £8.8888 | 3.76 .11 .01 .00 | 12,380 430 30 5,090 0 | .27 .30 .09 .09 | .0.00 .0.00 .0.00 .0.00 | 88888 | .28 .31 1.20 .14 .69 | 88888 | .28 .31 1.20 .17 |
| Lawrence Lee Livingston Logan McDonough | 2.75 2.44 .00 .06 .00 | 88588 | 2.75 2.44 1.0 3.0 3.0 3.0 3.0 | 7,150 11,380 340 270 0 | .22 .62 .72 .57 | 8.0.0.8.0. | 88.588 | .22 .63 .73 .48 .58 | 88288 | .63 .74 .78 .58 |
| McHenry McLean Macon Macoupin Madison | 90.00.098 90.00.098 | .99.0.9.9 .99.0.99 | 1.13 .06 .02 .00 .86 | 4,500 250 70 0 2,150 | .88 .57 .53 .62 | .03 .05 .03 .03 | 0.000.000 | .96 .74 .20 .92 .65 | 0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0. | 7.7. 7.7. 7.8. 7.8. 7.8. 7.8. 7.8. 7.8. |
| Marion Marshall Masson Menard | .00 .35 .20.27 .85 | 8.0.8.0.8 | .00 .36 20.27 .86 | 0 1,610 90,830 1,530 500 | 30 27 25 31 | .02 .01 .01 .01 | 9,5,6,6,3 | .32 6.83 2.6 3.2 | 88888 | .35 6.83 .32 .32 |
| Mercer Monroe Montgomery Morgan Moultrie | .62 .00 .00 .00 | 8.4.8.8.8. | | 2,880 1,520 0 630 0 | 75. 65. 62. 19. | 0.00 | 8,6,5,8,8 | .77 .35 .68 .63 | 8.2.2.8.8 | .77 .37 .70 .63 |

Table 7. Estimated irrigation water withdrawals, irrigated land, and estimated water withdrawals for livestock and animal specialties in Illinois, by county, 1990—Continued

| | Estir wate | Estimated irrigation water withdrawals, in Mgal/d | tion als, | Irrigated | Estimated livestock water | Estimated withdrawals for animal specialties, in Mgal/d | nated s for animal , in Mgal/d | Total v liveste specia | Total withdrawals for livestock and animal specialties, in Mgal/d | for mal al/d |
|--|---|---|----------------------------------|---|---------------------------------|---|--------------------------------------|----------------------------------|---|---------------------------------|
| County | Ground | Surface | Total | land, in acres | withdrawals, in Mgal/d | Ground | Surface water | Ground | Surface | Total |
| Ogle Peoria Petry Piatt | 0.26 .11 .00 .13 .56 | 00.0 11.86.00.00. | 0.26 .22 .68 .13 | 1,220 1,000 1,380 420 1,390 | 1.36 .40 .30 .15 | 0.03 .02 .01 .01 | o 888888 | 1.39 .42 .31 .15 | 0.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 | 1.39 .42 .34 .15 |
| Pope Pulaski Putnam Randolph Richland | 9.00. 9.00. 9.00. | 9.9.9.9.0 | 00. 1.00. 10. | 0 0 640 140 20 | | 9.09.00 | 88888 | .14 .18 .15 .30 | 8.9.9.8.9. | .14 .18 .77 .30 |
| Rock Island St. Clair Saline Sangamon Schuyler | .55 .00 .00 .00 | 06. t. 06. 06. 49. 49. | 55. 90. 90. 94. | 2,560 1,350 0 180 160 | .50 .13 .59 .37 | | 9,5,6,5,6,5 | .52 .46 .14 .62 .38 | 8.8.8.8. | .52 .48 .14 .62 .40 |
| Scott Shelby Stark Stephenson Tazewell | 1.06 .00 .00 .00 .00 .00 .00 .00 | 84888 | 1.06 .04 .00 .00 .80 | 2,640 100 0 10 25,990 | 27 22 224 75 | 86899 | 2,8,8,8,8 | .27 .77 .22 .25 .77 | 28888 | 22.25 22.25 7. |
| Union Vermilion Wabash Warren Washington | .08 .00 .22 .00 .00 .00 | 90.00.00.60 90.00.00.60 | 41.00 22.00 59.00 59.00 | 290 0 390 0 1,200 | .25 .33 .79 .79 | 9.9.9.9.9 | 82888 | .26 .35 .14 .80 .79 | 8.9.8.8.8 | .36 .36 .80 .79 |
| Wayne White Whiteside Will Williamson | .22 4.65 4.75 .16 | 8888 | .22 4.74 4.75 .16 | 390 8,420 22,150 640 0 | .49 1.17 3.1 7.1 | 90.00.00.00.00.00.00.00.00.00.00.00.00.0 | .15 .00 .06 .03 | .58 .24 1.19 .36 .19 | .15 .02 .03 .03 .03 | .73 1.21 22 22 |
| Winnebago Woodford Total | .61 .07 74.57 | 3.71 | .69 .11 78.28 | 3,210 470 286,540 | .71 .64 51.63 | .02 | .00 | .73 .65 .60.58 | .00 .00 .2.16 | .73 .65 62.74 |

Table 8. Estimated irrigation water withdrawals, irrigated land, and estimated water withdrawals for livestock and animal speciaities in Illinois, by hydrologic unit, 1990 [Mgal/d, million gallons per day]

| 122 - | Estimated irrigation water withdrawals. | | Estimated livestock | Estimated withdrawals for animal | lated for animal | Total v | Total withdrawals for livestock and animal |
|----------------------------------|---|-------------------------|---------------------------|----------------------------------|---------------------|--------------|--|
| _ | 토. | rrigated | water | specialties, in Mgal/d | , in Mgal/d | specia | specialties, in Mgal/d |
| Surrace water Total In | 드 | iand, In acres | withdrawais, in Mgal/d | water | water | water | water |
| 00:00 | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 90.8 | | 0 (| 10. | 10. 8 | 8.8 | 25.8 | 8.8 |
| 3.6 | | > Ç | 3.5 | 3.8 | 3,8 | 3,5 | 3,8 |
| 39 | | 1,290 | .47 | .03 | .01 | .50 | .01 |
| 1.25 | m | 3,270 | 09: | .02 | 00. | .62 | 9. |
| 3.20 | ∞ ₹ | 8,360 | 1.82 | .07 | \$ 8 | 1.89 | 2 5 |
| 1.67 | 1, W, – | 3,000 3,000 1,350 | .42 1.92 55 | .16 .16 | 3.1.8 | 2.08 2.08 | 3.1.8 |
| ۶/: ور: | | 000 | ران 13 | 90: 6 | | 33 |); E |
| 3.92 | . 0, | 6,970 | 55 | | 90. | 99. | 99.5 |
| .02 .82 1,480 .06 .34 1,560 | 4, 7, | 3 G | .45 2.34 | S S S | .03 .03 | 2.37 | |
| 1.16 | 5,40 | Q | .65 | 8 | 00. | .65 | 8. |
| .00 2.08 8,990 .00 .01 70 | 8,990 27 | | 2.73 | | 8.8 | 2.78 | 8,8 |
| 26 1,2 | 1,210 | | 2.38 | 9.05 | 8.8 | 2.40 | 8.8 |
| 5.58 26 | 26,010 | | 3.38 | 95.05 | 86. | 3.43 | 93. |
| 3,660 | 3,660 | 0.0 | 1.89 | 80. | 10. 05 | 1.97 | 0.5 |
| 01. | 42 | | 68. | 0.00 | 38. | .91 | 38 |
| .00 .96 2,390 .00 .16 390 | 2,39 39,8 | ~ ~ | 1.37 .33 | 10. 0. | 0.00 | 1.38 .34 | 95 97 |
| 0.04 3.01 9,970 | 9,970 | | .33 | .03 | .05 20. | .36 | .02 |
| 2.28 | 2,8 990,8 | | .03 | 20: 03: | 3.8.3 | | 38.3 |
| .00 4.12 16,510 .03 .46 1,540 | 16,510 1,540 | | .22 .55 | .09 .01 | 2 ; 8; | .31 .56 | 2 ,8 |
| 1.55 | 6,250 | | .56 | .07 | .01 | .63 | .01 |
| .85 1.23 | 5,480 | | 1.58 | 90: 03: | 10. 10. | 1.19 | 5.8. |
| .08 .11 410 .12 12.04 53,380 | 41 | 00 | .87 1.25 | .02 3.16 | .01 .02 | .89 4.41 | .01 .02 |

Table 8. Estimated irrigation water withdrawals, irrigated land, and estimated water withdrawals for livestock and animal specialties in Illinois, by hydrologic unit, 1990—Continued

| | Estin | Estimated irrigation | ion | | Estimated | Estin | Estimated | Total | Total withdrawals for | for |
|------------|---------|----------------------|-------|-----------|-----------|-------------|------------------------|-------------|------------------------|------------|
| | wate | water withdrawals, | ls, | • | livestock | withdrawals | withdrawals for animal | livest | livestock and anima | nai |
| Hvdrologic | Pullore | Surface | | irrigated | Water | Specialties | Specialities, in mga/d | specie | specialties, in mgal/d | D/IE |
| unit | water | water | Total | in acres | in Mgal/d | water | water | water | water | Total |
| 07130004 | 2.04 | 0.02 | 2.06 | 9.180 | 0.78 | 0.38 | 0.01 | 1.16 | 0.01 | 1.17 |
| 07130005 | 1.70 | .02 | 1.72 | 7,790 | 2.44 | <u>\$</u> | .02 | 2.48 | .02 | 2.50 |
| 07130006 | .32 | .02 | .34 | 1,110 | .49 | 2 : | .01 | .53 | .01 | 5 . |
| 07130007 | 90. | ġ. | .10 | 240 | .65 | .05 | 8. | .70 | 8 . | .70 |
| 07130008 | 8.13 | .10 | 8.23 | 35,650 | .81 | 2.34 | .01 | 3.15 | .01 | 3.16 |
| 07130009 | 3.55 | 8. | 3.55 | 15,930 | 1.12 | 1.00 | .19 | 2.12 | .19 | 2.31 |
| 07130010 | .12 | .02 | .14 | 620 | 1.34 | .03 | .01 | 1.37 | .01 | 1.38 |
| 07130011 | 1.63 | .05 | 1.68 | 4,220 | 2.40 | .03 | .03 | 2.43 | .03 | 2.46 |
| 07130012 | .16 | 8. | .16 | 410 | 1.09 | .01 | .02 | 1.10 | .02 | 1.13 |
| 07140101 | 62: | .28 | 1.07 | 2,330 | 91. | .03 | .05 | <i>6L</i> : | .05 | %. 4 |
| 07140105 | 72. | 8. | .33 | 029 | .39 | .00 | .21 | .41 | .21 | .62 |
| 07140106 | .27 | 1.18 | 1.45 | 2,930 | 1.36 | .07 | .84 | 1.43 | .84 | 2.27 |
| 07140108 | .17 | .01 | .18 | 370 | .17 | 2 . | 8. | .21 | 8. | .21 |
| 07140201 | .17 | Ş. | .21 | 0/9 | 98. | .21 | .01 | 1.07 | .01 | 1.08 |
| 07140202 | .21 | .27 | .48 | 066 | 1.66 | .28 | .02 | 1.94 | .02 | 1.96 |
| 07140203 | 80. | 8. | 80. | 170 | 1.12 | .03 | .01 | 1.15 | .01 | 1.16 |
| 07140204 | 68. | .47 | 1.36 | 2,940 | 1.58 | .05 | .15 | 1.63 | .15 | 1.78 |
| Total | 74.57 | 3.71 | 78.28 | 286,540 | 51.63 | 8.95 | 2.16 | 60.58 | 2.16 | 62.74 |
| | | | | | | | | | | |

Table 9. Industrial self-supplied withdrawals and deliveries from public-water facilities for industrial use in Illinois, by county, 1990 [All values are in million gallons per day]

| | Salf o | upplied withdr | awala | Deliveries from | Total seif-suppiied withdrawais and |
|--------------------------|--------------------|----------------------------|---------------|-----------------------------|---|
| | Ground | upplied withdra Surface | awais | | |
| County | water | water | Totai | public-supply facilities | public-suppiy deliveries |
| Adams | 10.28 | 0.00 | 10.28 | 2.06 | 12.34 |
| Alexander | .01 | .00 | .01 | .39 | .40 |
| Bond | .00 | .00 | .00 | .06 | .06 |
| Boone | .07 | .00 | .07 | 1.64 | 1.71 |
| Brown | .00 | .00 | .00 | .00 | .00 |
| Bureau | .02 | .00 | .02 | .49 | .51 |
| Calhoun | .00 | .00 | .00 | .00 | .00 |
| Carroll | 1.96 | .00 | 1.96 | .17 | 2.13 |
| Cass | 1.70 | .00 | 1.70 | .00 | 1.70 |
| Champaign | 3.61 | .00 | 3.61 | 2.15 | 5.76 |
| Christian | .00 | .00 | .00 | 1.36 | 1.36 |
| Clark | .00 | .00 | .00 | .00 | .00 |
| Clay | .00 | .00 | .00 | .22 | .22 |
| Clinton | .00 | .00 | .00 | .01 | .01 |
| Coles | .00 | .00 | .00 | .04 | .04 |
| Cook | 20.08 | 159.35 | 179.43 | 174.05 | 353.48 |
| Crawford | .00 | 4.26 | 4.26 | .49 | 4.75 |
| Cumberland | .00 | .00 | .00 | .00 | .00 |
| De Kalb | .48 | .16 | .64 | .43 | 1.07 |
| De Witt | .00 | .00 | .00 | .00 | .00 |
| Douglas | .00 | 5.48 | 5.48 | .01 | 5,49 |
| Du Page | .39 | .00 | .39 | 5.76 | 6.15 |
| Edgar | .00 | .00 | .00 | .00 | .00 |
| Edwards | .00 | .00 | .00 | .03 | .03 |
| Effingham | .00 | .00 | .00 | .01 | .01 |
| Fayette | .00 | .00 | .00 | .07 | .07 |
| Ford | .00 | .00 | .00 | .17 | .17 |
| Franklin | .00 | .00 | .00 | .19 | .19 |
| Fulton | .00 | .00 | .00 | .04 | .04 |
| Gallatin | .00 | .00 | .00 | .00 | .00 |
| Greene | .00 | .00 | .00 | .00 | .00 |
| Grundy | 6.24 | .07 | 6.31 | .06 | 6.37 |
| Hamilton | .00 | .00 | .00 | .00 | .00 |
| Hancock | .00 | .00 | .00 | .03 | .03 |
| Hardin | .00 | .00 | .00 | .11 | .11 |
| Henderson | .00 | .00 | .00 | .00 | .00 |
| Henry | .03 | .00 | .03 | .21 | .24 |
| Iroquois | .07 | .00 | .07 | .03 | .10 |
| Jackson | .00 | .00 | .00 | 2.41 | 2.41 |
| Jasper | .00 | .00 | .00 | .00 | .00 |
| Jefferson | .00 | .00 | .00 | .02 | .02 |
| Jersey | .00 | .00 | .00 | .00 | .00 |
| Jo Daviess | 1.72 | .00 | 1.72 | .65 | 2.37 |
| Johnson | .00 | .00 | .00 | .00 | .00 |
| Kane | 1.52 | .00 | 1.52 | 5.20 | 6.72 |
| Kankakee | .12 | .00 | .12 | 4.13 | 4.25 |
| Kendall | .32 | .00 | .32 | .23 | .55 |
| | | | | | |
| Knox | .00 | .00 | .00 | 2.83 | 2.83 |
| Knox Lake La Salle | .00 .69 3.25 | .00 11.61 3.93 | 12.30 7.18 | 2.83 3.35 1.30 | 2.83 15.65 8.48 |

Table 9. Industrial self-supplied withdrawals and deliveries from public-water facilities for industrial use in Illinois, by county, 1990—Continued

| | Saif-s | upplied withdra | awale | Deliveries from | Total self-supplied withdrawals and |
|---------------------|-------------|-----------------|-------------|--------------------|---|
| | Ground | Surface | 211015 | public-supply | public-supply |
| County | water | water | Totai | facilities | deliveries |
| Lawrence | 0.00 | 0.00 | 0.00 | 0.03 | 0.03 |
| Lee | .03 | .02 | .05 | .65 | .70 |
| Livingston | .09 | .00 | .09 | .34 | .43 |
| Logan | .00 | .00 | .00 | .39 | .39 |
| McDonough | .02 | .00 | .02 | .06 | .08 |
| McHenry | 2.44 | 1.21 | 3.65 | 3.07 | 6.72 |
| McLean | .03 | .00 | .03 | .93 | .96 |
| Macon Macoupin | .00 .00 | 8.50 .00 | 8.50 .00 | .00 .14 | 8.50 .14 |
| Madison | 34.08 | 22.21 | 56.29 | 20.83 | 77.12 |
| Marion | .00 | .00 | .00 | .36 | .36 |
| Marshall | 1.24 | .00 | 1.24 | .00 | 1.24 |
| Mason | .00 | .00 | .00 | .04 | .04 |
| Massac | 4.87 | .00 | 4.87 | .00 | 4.87 |
| Menard | .00 | .00 | .00 | .00 | .00 |
| Mercer | .00 | .00 | .00 | .00 | .00 |
| Monroe | .00 | .00 | .00 | .11 | .11 |
| Montgomery | .00 | .44 | .44 | .10 | .54 |
| Morgan | 3.91 | .00 | 3.91 | .02 | 3.93 |
| Moultrie | .00 | .00 | .00 | .00 | .00 |
| Ogle | .68 | .00 | .68 | 2.57 | 3.25 |
| Peoria | 15.37 | 11.83 | 27.20 | 1.82 | 29.02 |
| Perry Piatt | .00 .74 | .61 .00 | .61 .74 | .00 .02 | .61 .76 |
| Pike | .00 | .00 | .00 | .02 .01 | .76 .01 |
| Pope | .00 | .00 | .00 | .00 | .00 |
| Pulaski | .00 | .00 | .00 | .02 | .02 |
| Putnam | .10 | 4.30 | 4.40 | .09 | 4.49 |
| Randolph | .00 | .00 | .00 | .16 | .16 |
| Richland | .00 | .00 | .00 | .60 | .60 |
| Rock Island | 12.58 | 36.41 | 48.99 | 2.45 | 51.44 |
| St. Clair Saline | 2.73 .00 | .00 .00 | 2.73 .00 | 8.19 .39 | 10.92 .39 |
| Sangamon | .00 | .00 | .00 | .04 | .04 |
| Schuyler | .00 | .00 | .00 | .03 | .03 |
| Scott | .00 | .00 | .00 | .00 | .00 |
| Shelby | .29 | .00 | .29 | .00 | .29 |
| Stark | .00 | .00 | .00 | .00 | .00 |
| Stephenson | 1.82 | .00 | 1.82 | .01 | 1.83 |
| Tazewell | 6.50 | 17.44 | 23.94 | .97 | 24.91 |
| Union | .00 | .00 | .00 | .06 | .06 |
| Vermilion | 2.96 | .00 | 2.96 | 3.35 | 6.31 |
| Wabash Warren | .00 .00 | .00 .00 | .00 .00 | .15 .07 | .15 .07 |
| Washington | .00 | .00 | .00 | .12 | .12 |
| Wayne | .00 | .00 | .00 | .00 | .00 |
| White | .00 | .00 | .00 | .00 | .00 |
| Whiteside | 3.62 | 4.03 | 7.65 | .79 | 8.44 |
| Will | 4.53 | 17.19 | 21.72 | 2.10 | 23.82 |
| Williamson | .00 | .40 | .40 | .07 | .47 |
| Winnebago | 3.59 | .00 | 3.59 | 1.92 | 5.51 |
| Woodford | 01 | | 01 | .01 | 02 |
| Total | 154.79 | 309.45 | 464.24 | 263.48 | 727.72 |

Table 10. Industrial self-supplied withdrawals and deliveries from public-water facilities for industrial use in Illinois, by hydrologic unit, 1990
[All values are in million gallons per day]

| | Seif-s | upplied withdr | awals | Deliveries from | Total self- supplied withdrawals and |
|----------------------|--------------|----------------|----------------|--------------------|---|
| Hydrologic | Ground | Surface | | public-supply | public-supply |
| unit | water | water | Total | facilities | deliveries |
| 04040001 | 0.00 | 35.78 | 35.78 | 3.21 | 38.99 |
| 04040002 | .02 | 69.71 | 69.73 | 3.37 | 73.10 |
| 04060200 | .00 | 11.61 | 11.61 | .00 | 11.61 |
| 05120108 | .00 | .00 | .00 | .50 | .50 |
| 05120109 | 2.98 | .00 | 2.98 | 3.61 | 6.59 |
| 05120111 | .00 | 4.26 | 4.26 | .17 | 4.43 |
| 05120112 | .00 | .00 | .00 | .76 | .76 |
| 05120113 | .00 .00 | .00 .00 | .00 .00 | .26 | .26 |
| 05120114 05120115 | .00 | .00 | .00 | .67 .15 | .67 .15 |
| 05140203 | .00 | .00 | .00 | .09 | .09 |
| 05140204 | .00 | .00 | .00 | .44 | .44 |
| 05140206 | 4.87 | .00 | 4.87 | .02 | 4.89 |
| 07060005 | 3.67 | .00 | 3.67 | .73 | 4.40 |
| 07080101 | 10.79 | 36.41 | 47.20 | 2.57 | 49.77 |
| 07080104 | .00 | .00 | .00 | .61 | .61 |
| 07090001 | .36 | .00 | .36 | .08 | .44 |
| 07090003 | 1.82 | .00 | 1.82 | .73 | 2.55 |
| 07090004 07090005 | .00 8.73 | .00 4.05 | .00 12.78 | .21 4.26 | .21 17.04 |
| 07090006 | 1.56 | 1.37 | 2.93 | 4.93 | 7.86 |
| 07090007 | .03 | .00 | .03 | .68 | .71 |
| 07110001 | 9.53 | .00 | 9.53 | 1.09 | 10.62 |
| 07110004 | .00 | .00 | .00 | .46 | .46 |
| 07110009 | 12.63 | 4.41 | 17.04 | .71 | 17.75 |
| 07120001 | .12 | .00 | .12 | 4.01 | 4.13 |
| 07120002 | .07 | .00 | .07 | .80 | .87 |
| 07120003 | 18.43 | 49.14 | 67.57 | 64.65 | 132.22 |
| 07120004 07120005 | 7.20 8.54 | 21.92 1.47 | 29.12 10.01 | 101.45 .88 | 130.57 10.89 |
| 07120006 | 2.16 | .00 | 2.16 | 13.20 | 15.36 |
| 07120007 | 2.06 | .00 | 2.06 | 4.71 | 6.77 |
| 07130001 | 5.20 | 11.11 | 16.31 | 1.21 | 17.52 |
| 07130002 | .09 | .00 | .09 | .61 | .70 |
| 07130003 | 21.08 | 24.98 | 46.06 | 1.65 | 47.71 |
| 07130004 | .09 | .00 | .09 | .35 | .44 |
| 07130005 | .00 | .00 | .00 | 3.03 | 3.03 |
| 07130006 | .74 | 8.50 .00 | 9.24 | .93 | 10.17 |
| 07130007 07130008 | .00 .00 | .00 | .00 .00 | 1.04 .11 | 1.04 .11 |
| 07130009 | .03 | .00 | .03 | 1.14 | 1.17 |
| 07130010 | .02 | .00 | .02 | .22 | .24 |
| 07130011 | 3.91 | .00 | 3.91 | .41 | 4.32 |
| 07130012 | .00 | .00 | .00 | .14 | .14 |
| 07140101 | 24.17 | 17.80 | 41.97 | 1.69 | 43.66 |
| 07140105 | .00 | .00 | .00 | .44 | .44 |
| 07140106 | .00 | 1.01 | 1.01 | 2.34 | 3.35 |
| 07140108 | .01 | .00 | .01 | .42 | .43 |
| 07140201 07140202 | 3.88 .00 | 5.48 .00 | 9.36 .00 | .40 .35 | 9.76 .35 |
| 07140203 | .00 | .44 | .44 | .13 | .57 |
| 07140204 | .00 | .00 | .00 | 26.86 | 26.86 |
| Total | 154.79 | 309.45 | 464.24 | 263.48 | 727.72 |
| 10141 | 157.17 | 307.73 | 707. 47 | 203.70 | 121.12 |

Table 11. Mining withdrawals and consumptive use in Illinois, by county, 1990 [All values are in million gallons per day]

| | | | | Withdrawals | | | | _ | | |
|------------------|-------------|--------------------|--------------|--------------|---------------|-----------------|---------------|--------------|--------------------|--------------|
| Countr | Gı Fresh | round wa Saline | ter Total | Surface | Fresh | Total Saline | Total | Con Fresh | sumptive Saline | use Total |
| County | Fresn | Saline | IOlai | water | rresn | Saline | IOIAI | Fresn | Saime | TOLA |
| Adams | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.0 |
| Alexander | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| Bond | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| Boone | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| Brown | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| Diowii | | .00 | | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| Bureau | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| Calhoun | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| Carroll | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| Cass | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| Champaign | .00 | .00 | .00 | 5.23 | 5.23 | .00 | 5.23 | .78 | .00 | .78 |
| Christian | .01 | .46 | .47 | .22 | .23 | .46 | .69 | .11 | .46 | .57 |
| Clark | .10 | .11 | .21 | .00 | .10 | .11 | .21 | .05 | .11 | .16 |
| Clay | .00 | .72 | .72 | .00 | .00 | .72 | .72 | .00 | .72 | .72 |
| Clinton | .37 | .31 | .68 | 1.39 | 1.76 | .31 | 2.07 | .77 | .31 | 1.08 |
| Coles | .00 | .12 | .12 | .01 | .01 | .12 | .13 | .00 | .12 | .12 |
| Cook | .00 | .00 | .00 | .55 | .55 | .00 | .55 | .08 | .00 | .08 |
| Crawford | .00 | 3.60 | 3.60 | .00 | .00 | 3.60 | 3.60 | .00 | 3.60 | 3.60 |
| Cumberland | .09 | .11 | .20 | .00 | .09 | .11 | .20 | .04 | .11 | .15 |
| De Kalb | .00 | .00 | .00 | 2.77 | 2.77 | .00 | 2.77 | .42 | .00 | .13 |
| De Witt | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| Danalas | 00 | | | | | 00 | | 10 | | 10 |
| Douglas | .00 | .00 | .00 | .24 | .24 | .00 | .24 | .12 | .00 | .12 |
| Du Page | .06 | .00 | .06 | .00 | .06 | .00 | .06 | .01 | .00 | .01 |
| Edgar | .00 | .09 | .09 | .00 | .00 | .09 | .09 | .00 | .09 | .09 |
| Edwards | .00 | .49 | .49 | .00 | .00 | .49 | .49 | .00 | .49 | .49 |
| Effingham | .00 | .22 | .22 | .00 | .00 | .22 | .22 | .00 | .22 | .22 |
| Fayette | .00 | 1.28 | 1.28 | .00 | .00 | 1.28 | 1.28 | .00 | 1.28 | 1.28 |
| Ford | .00 | .00 | .00 | .03 | .03 | .00 | .03 | .01 | .00 | .01 |
| Franklin | .02 | .23 | .25 | 2.47 | 2.49 | .23 | 2.72 | 1.21 | .23 | 1.44 |
| Fulton | .29 | .00 | .29 | .73 | 1.02 | .00 | 1.02 | .41 | .00 | .41 |
| Gallatin | 1.54 | .27 | 1.81 | 1.16 | 2.70 | .27 | 2.97 | 1.32 | .27 | 1.59 |
| Greene | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| Grundy | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| Hamilton | .00 | .51 | .51 | .32 | .32 | .51 | .83 | .16 | .51 | .67 |
| Hancock | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| Hardin | 1.16 | .00 | 1.16 | .00 | 1.16 | .00 | 1.16 | .17 | .00 | .17 |
| Henderson | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| Henry | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| Iroquois | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| Jackson | .00 | .00 | .00 | .72 | .72 | .00 | .72 | .35 | .00 | .35 |
| Jasper | .00 | 1.10 | 1.10 | .00 | .00 | 1.10 | 1.10 | .00 | 1.10 | 1.10 |
| Jefferson | .00 | .77 | .77 | .83 | .83 | .77 | 1.60 | .41 | .77 | 1.18 |
| Jersey | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| Jo Daviess | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| Johnson | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| Kane | .00 | .00 | .00 | .79 | .00 .79 | .00 | .79 | .12 | .00 | .12 |
| | 70 | 00 | .79 | 00 | 70 | 00 | | 10 | | |
| Kankakee | .79 | .00 | | .00 | .79 | .00 | .79 | .12 | .00 | .12 |
| Kendall | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| Knox | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| Lake La Salle | .51 .15 | .00 .00 | .51 .15 | .54 20.75 | 1.05 20.90 | .00 .00 | 1.05 20.90 | .16 3.14 | .00 .00 | .16 3.14 |
| _ | | | | | | | | | | |
| Lawrence | .40 | 7.22 | 7.62 | .00 | .40 | 7.22 | 7.62 | .20 | 7.22 | 7.42 |
| Lee | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| Livingston | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| Logan | .23 | .00 | .23 | .11 | .34 | .00 | .34 | .17 | .00 | .17 |
| McDonough | .00 | .00 | .00 | .58 | .58 | .00 | .58 | .28 | .00 | .28 |

Table 11. Mining withdrawals and consumptive use in Illinois, by county, 1990—Continued

| | | ound wa | or | Withdrawals Surface | | Total | | Con | Consumptive use | | |
|------------------------|------------|------------------|---------------------|------------------------|---------------------|------------------|--------------|---------------------|-----------------|-------------|--|
| County | Fresh | Saline | Total | water | Fresh | Saline | Total | Fresh | Saline | Total | |
| | , | | | | | | | | | | |
| McHenry | .00 | .00 | .00 | 2.59 | 2.59 | .00 | 2.59 | .39 | .00 | .39 | |
| McLean | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | |
| Macon | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | |
| Macoupin | .00 | .00 | .00 | 1.65 | 1.65 | .00 | 1.65 | .81 | .00 | .81 | |
| Madison | .00 | .09 | .09 | .00 | .00 | .09 | .09 | .00 | .09 | .09 | |
| Marion | .00 | .65 | .65 | .00 | .00 | .65 | .65 | .00 | .65 | .65 | |
| Marshall | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | |
| Mason | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | |
| Massac | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | |
| Menard | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | |
| Mercer | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | |
| Monroe | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | |
| Montgomery | .00 | .00 | .00 | .14 | .14 | .00 | .14 | .07 | .00 | .07 | |
| Morgan | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | |
| Moultrie | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | |
| Ogle | .35 | .00 | .35 | .00 | .35 | .00 | .35 | .05 | .00 | .05 | |
| Peoria | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | |
| Perry | 1.28 | .01 | 1.29 | 6.57 | 7.85 | .01 | 7.86 | 3.85 | .01 | 3.86 | |
| Piatt | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | |
| Pike | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | |
| Pope | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | |
| Pulaski | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | |
| Putnam | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | |
| Randolph | .00 | .00 | .00 | .67 | .67 | .00 | .67 | .33 | .00 | .33 | |
| Richland | .00 | .91 | .91 | .00 | .00 | .91 | .91 | .00 | .91 | .91 | |
| Rock Island | .00 | .00 | .00 | .34 | .34 | .00 | .34 | .04 | .00 | .04 | |
| St. Clair | .00 | .00 | .00 | 2.19 | 2.19 | .00 | 2.19 | 1.07 | .00 | 1.07 | |
| Saline | .00 | .35 | .35 | 3.78 | 3.78 | .35 | 4.13 | 1.85 | .35 | 2.20 | |
| Sangamon | .00 | .00 | .00 | 1.02 | 1.02 | .00 | 1.02 | .15 | .00 | .15 | |
| Schuyler | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | |
| Scott | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | |
| Shelby | .00 | .04 | .04 | .00 | .00 | .04 | .04 | .00 | .04 | .04 | |
| Stark | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | |
| Stephenson Tazewell | .00 .00 | .00 .00 | .00 .00 | .00 .00 | .00 .00 | .00 .00 | .00 .00 | .00 .00 | .00 .00 | .00 .00 | |
| I Inion | .00 | .00 | | | | | | .00 | 00 | | |
| Union Vermilion | .00 | .00 | .00 .00 | .00 .00 | .00 .00 | .00 .00 | .00 .00 | .00 | .00 .00 | .00. 00. | |
| Wabash | .00 .11 | 1.23 | .00 1.34 | .00 | .00 .11 | 1.23 | .00 1.34 | .00 | 1.23 | 1.28 | |
| | | .00 | | | | | | | .00 | | |
| Warren Washington | .00 .00 | .35 | .00 .35 | .00 .00 | .00 .00 | .00 .35 | .00 .35 | .00 .00 | .35 | .00 .35 | |
| Wayne | .00 | 1.71 | 1.71 | .00 | .00 | 1.71 | 1.71 | .00 | 1.71 | 1.71 | |
| Wayne White | .00 | 2.49 | 2.58 | .00 | .00 .09 | 2.49 | 2.58 | .00 .04 | 2.49 | 2.53 | |
| Whiteside | .00 | .00 | .00 | .00 | .09 | .00 | .00 | .00 | .00 | .00 | |
| Will | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | |
| Williamson | .00 | .03 | .03 | 2.10 | 2.10 | .03 | 2.13 | 1.03 | .03 | 1.06 | |
| Winnebago | .00 | .00 | .00 | .74 | .74 | .00 | .74 | .11 | .00 | .11 | |
| Woodford | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | |
| Total | 7.55 | 25.47 | $\frac{.00}{33.02}$ | 61.23 | $\frac{.50}{68.78}$ | 25.47 | 94.25 | $\frac{.60}{20.45}$ | 25.47 | 45.92 | |
| iolai | 1.33 | 43.41 | 33.04 | 01.23 | 00.70 | 43.4 <i>1</i> | 74.4J | ZU.4.) | 4J.41 | 41.72 | |

Table 12. Mining withdrawals and consumptive use in Illinois, by hydrologic unit, 1990 [All values are in million gallons per day]

| | | | | Withdrawals | | Takal | | C | | |
|--------------------------------------|------------|----------------------|-------------|------------------|-------|-----------------|----------------------|-------|---------------------|-------|
| Hydro io gic un i t | Fresh | round wate Saline | er Totai | Surface water | Fresh | Total Saline | Total | Fresh | sumptive Saiine | Total |
| | | | | | | | | | | |
| 04040001 | 0.00 | 0.00 | 0.00 | 0.02 | 0.02 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 |
| 04040002 | .07 | .00 | .07 | .09 | .16 | .00 | .16 | .02 | .00 | .02 |
| 0406 02 00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| 05120108 | .00 | .00 | .00 | .12 | .12 | .00 | .12 | .02 | .00 | .02 |
| 05120109 | .00. | .00 | .00 | 2.32 | 2.32 | .00 | 2.32 | .34 | .00 | .34 |
| 05120111 | .00 | .05 | .05 | .00 | .00 | .05 | .05 | .00 | .05 | .05 |
| 05120112 | .59 | 10.66 | 11.25 | .83 | 1.42 | 10.66 | 12.08 | .47 | 10.66 | 11.13 |
| 05120113 | .32 | 2.55 | 2.87 | .15 | .47 | 2.55 | 3.02 | .23 | 2.55 | 2.78 |
| 05120114 | .03 | 5.32 | 5.35 | .00 | .03 | 5.32 | 5.35 | .02 | 5.32 | 5.34 |
| 05120115 | .01 | 1.14 | 1.15 | .23 | .24 | 1.14 | 1.38 | .13 | 1.14 | 1.27 |
| 0514 02 03 | .29 | .00 | .29 | .21 | .50 | .00 | .50 | .24 | .00 | .24 |
| 05140204 | 1.54 | 1.55 | 3.09 | 5.75 | 7.29 | 1.55 | 8.84 | 3.48 | 1.55 | 5.03 |
| 05140206 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| 07060005 | .00 | .00 | .00 | .00. | .00 | .00 | .00 | .00 | .00 | .00 |
| 07080101 | .00 | .00 | .00 | .34 | .34 | .00 | .34 | .04 | .00 | .04 |
| 07080104 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| 07090001 | .00 | .00 | .00 | .74 | .74 | .00 | .74 | .00 | .00 | .00 |
| 07090003 | .26 | .00 | .26 | .00 | .26 | .00 | .26 | .04 | .00 | .04 |
| 07090004 | .08 | .00 | .08 | .00 | .08 | .00 | .08 | .01 | .00 | .01 |
| 07090005 | .61 | .00 | .61 | .01 | .62 | .00 | .62 | .09 | .00 | .09 |
| 07090006 | .12 | .00 | .12 | 1.76 | 1.88 | .00 | 1.88 | .29 | .00 | .29 |
| 07090007 | .00 | .00 | .00 | .02 | .02 | .00 | .02 | .00 | .00 | .00 |
| 07110001 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| 07110004 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| 07110009 | .00 | .00 | .00 | .14 | .14 | .00 | .14 | .07 | .00 | .07 |
| 0712 00 01 | .79 | .00 | .79 | .00 | .79 | .00 | .79 | .12 | .00 | .12 |
| 07120002 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| 07120003 | .03 | .00 | .03 | .28 | .31 | .00 | .31 | .05 | .00 | .05 |
| 07120004 | .27 | .00 | .27 | .43 | .70 | .00 | .70 | .11 | .00 | .11 |
| 07120005 | .02 | .00 | .02 | 2.49 | 2.51 | .00 | 2.51 | .38 | .00 | .38 |
| 07120006 | .20 | .00 | .20 | 2.86 | 3.06 | .00 | 3.06 | .46 | .00 | .46 |
| 07120007 | .05 | .00 | .05 | 7.90 | 7.95 | .00 | 7.95 | 1.22 | .00 | 1.22 |
| 07130001 | .06 | .00 | .06 | 7.82 | 7.88 | .00 | 7.88 | 1.18 | .00 | 1.18 |
| 07130002 | .03 | .00 | .03 | 4.37 | 4.40 | .00 | 4.40 | .66 | .00 | .66 |
| 07130003 | .04 | .00 | .04 | .34 | .38 | .00 | .38 | .19 | .00 | .19 |
| 07130004 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| 07130005 | .25 | .00 | .25 | .50 | .75 | .00 | .75 | .27 | .00 | .27 |
| 07130006 | .00 | .01 | .01 | 1.49 | 1.49 | .01 | 1.50 | .24 | .01 | .25 |
| 07130007 | .01 | .45 | .46 | .68 | .69 | .45 | 1.14 | .19 | .45 | .64 |
| 07130008 | .00. | .00 | .00 | .42 | .42 | .00 | .42 | .06 | .00 | .06 |
| 07130009 | .23 | .00 | .23 | .15 | .38 | .00 | .38 | .18 | .00 | .18 |
| 07130010 | .00 | .00 | .00 | .48 | .48 | .00 | .48 | .23 | .00 | .23 |
| 07130011 | .00 | .00 | .00 | .12 | .12 | .00 | .12 | .06 | .00 | .06 |
| 07130012 | .00 | .00 | .00 | 1.13 | 1.13 | .00 | 1.13 | .56 | .00 | .56 |
| 07140101 | .00. | .00 | .00 | .92 | .92 | .00 | .92 | .45 | .00 | .45 |
| 07140105 | .02 | .00 | .02 | .46 | .48 | .00 | .48 | .23 | .00 | .23 |
| 07140105 | 1.23 | 1.20 | 2.43 | 11.13 | 12.36 | 1.20 | 13.56 | 6.08 | 1.20 | 7.28 |
| 07140108 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| 0714 01 03 | .00 | .04 | .04 | .95 | .95 | .04 | .99 | .18 | .04 | .22 |
| 07140201 | .08 | 2.32 | 2.40 | .66 | .74 | 2.32 | 3.06 | .36 | 2.32 | 2.68 |
| 07140203 | .05 | .03 | .08 | .49 | .54 | .03 | .57 | .27 | .03 | .30 |
| 07140203 | .03 .27 | .03 | .42 | 2.43 | 2.70 | .15 | 2.85 | 1.23 | .15 | 1.38 |
| | | | | | | | $\frac{2.05}{94.25}$ | | $\frac{.13}{25.47}$ | 45.92 |
| Total | 7.55 | 25.47 | 33.02 | 61.23 | 68.78 | 25.47 | 94.23 | 20.45 | 43.47 | 43.94 |

Table 13. Thermoelectric-power self-supplied withdrawals, deliveries from public-supply facilities for thermoelectric-power generation, consumptive use, and power generated in Illinois, by county, 1990 [Mgal/d, million gallons per day; GWh, gigawatt-hour]

| | | Self-supplied withdrawals in Mgal/d | | Deliveries from public- | Total self-supplied withdrawals | Consumptive | Power |
|----------------------------|------------|-------------------------------------|------------|----------------------------|---------------------------------------|----------------|-------------|
| | Ground | Surface | | water facilities, | and deliveries, | use, | generated, |
| County | water | water | Total | in Mgal/d | in Mgal/d | in Mgal/d | in GWh |
| Adams | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Alexander | .00 | .00 | .00 | .00 | .00 | .00 | .00. |
| Bond | .00 | .00 | .00 | .00 | .00 | .00 | .00. |
| Boone | .00 | .00 | .00 | .00 | .00 | .00 | .00. |
| Brown | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| Bureau | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| Calhoun | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| Carroll | .00 | .00 | .00 | .00 | .00 | .00 | .00. |
| | | .00 | .00 | .00 | .00 | .00 | .00. |
| Cass Cham pa ign | .00 .00 | .00 | .00 | .00 | .00 | .00 | .00. |
| Champaign | | | | | | | |
| Christian | .00 | 793.43 | 793.43 | .00 | 793.43 | 7.93 | 4,489.00 |
| Clark | .00 | .00 | .00 | .00 | .00 | .00 | .00. |
| Clay | .00 | .00 | .00 | .00 | .00 | .00 | .00. |
| Clinton | .00. | .00 | .00 | .00 | .00 | .00 | .00 |
| Coles | .00 | .00 | .00 | .00 | .00 | .00 | .00. |
| Cook | .00 | 409.64 | 409.64 | .43 | 410.07 | 4.09 | 861.72 |
| Crawford | .76 | 58.66 | 59.42 | .00 | 59.42 | .61 | 408.14 |
| Cumberland | .00 | .00 | .00 | .00 | .00 | .00 | .00. |
| De Kalb | .00 | .00 | .00 | .00 | .00 | .00 | .00. |
| De Witt | .00 | 493.18 | 493.18 | .00 | 493.18 | 14.79 | 3,051.00 |
| Danala | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| Douglas Du Page | .00 .01 | .00 | .01 | .00 | .01 | .00 | .00. |
| | .00 | .00 | .00 | .00 | .00 | .00 | .00. |
| Edgar | .00 | .00 | .00 | .00 | .00 | .00 | .00. |
| Edwards Effingham | .00 | .00 | .00 | .00 | .00 | .00 | .00. |
| • | 00 | 00 | 00 | 00 | .00 | .00 | .00 |
| Fayette | .00 .00 | .00 .00 | .00 .00 | .00 .00 | .00 | .00 | .00. |
| Ford | | | | | .00 | .00 | .00. |
| Franklin | .00 | .00 | .00 | .00 | .00 267.99 | .00 8.04 | 1,880.21 |
| Fulton | .00 | 267.99 | 267.99 | .00 | .00 | .00 | .00 |
| Gallatin | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| Greene | .00 | .00 | .00. | .00 | .00. | .00. | .00 |
| Grundy | .85 | 1,537.09 | 1,537.94 | .00 | 1,537.94 | 30.83 | 10,173.77 |
| Hamilton | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| Hancock | .00 | .00. | .00 | .00 | .00 | .00 | .00 |
| Hardin | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| Henderson | .00 | .00 | .00 | .00 | .00. | .00 | .00 |
| Henry | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| Iroquois | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| Jackson | .09 | 142.76 | 142.85 | .00. | 142.85 | 1.48 | 386.00 |
| Jasper | .00 | 419.18 | 419.18 | .00 | 419.18 | 3.45 | 4,756.00 |
| Jefferson | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| Jersey | .00 | .00 | .00 | .00 | .00 | .00 | .00. |
| Jo Daviess | .00 | .00 | .00 | .00 | .00 | .00 | .00. |
| | .00 | .00 | .00 | .00 | .00 | .00 | .00. |
| Johnson Kane | .00 | .00 | .00 | .00 | .00 | .00 | .00. |
| | | | | 00 | .00 | .00 | .00. |
| Kankakee | .00 | .00 | .00 | .00 .00 | .00 .00 | .00 .00 | .00. |
| Kendall | .00 | .00 | .00. | | | .00 .00 | .00. 00. |
| Knox | .00 | .00 | .00 | .00 | .00 | | 10,076.00 |
| Lake La Salle | .00 | 2,789.62 | 2,789.62 | .04 | 2,789.66 | 70.92 63.04 | 13,170.00 |
| L o Pollo | .24 | 63.14 | 630.38 | .00 | 630.38 | 0.5.04 | 15.170.00 |

Table 13. Thermoelectric-power self-supplied withdrawals, deliveries from public-supply facilities for thermoelectric-power generation, consumptive use, and power generated in Illinois, by county, 1990—Continued

| | | Self-supplie withdrawal | s, | Deliveries | Total self-supplied | | _ |
|-----------------------|-------------|----------------------------|-------------------|-------------------|---------------------|--------------|-----------------------|
| | | in Mgal/d | | from public- | withdrawals | Consumptive | Power |
| | Ground | Surface | | water facilities, | and deliveries, | use, | generated, |
| County | water | water | Total | in Mgal/d | in Mgal/d | in Mgal/d | in GWh |
| Lawrence | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Lee | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| Livingston | .00 | .00 | .00. | .00 | .00 | .00 | .00 |
| Logan | .00 | .00 | .00 | .00 | .00 | .00 | .00. |
| McDonough | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| McHenry | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| McLean | .00. | .00. | .00 | .00 | .00 | .00 | .00 |
| Macon | .00 | .00 | .00 | .00 | .00 | .00 | .00. |
| Macoupin | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| Madison | .00 | 257.32 | 257.32 | .01 | 257.33 | 2.63 | 1,705.00 |
| Marion | .00 | .00 | .00 | .00 | .00 | .00 | .00. |
| Marshall | .00 | .00 | .00 .00 | .00 | .00 | .00 | .00 |
| Mason | .83 | 102.00 | 102.83 | .00 | 102.83 | 1.85 | 1,722.00 |
| Massac | .93 | 466.55 | 467.48 | .00 | 467.48 | 4.83 | 6,434.00 |
| Menard | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| Mercer | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| Monroe | .00 | .00 | .00 .00 | .00 | .00 | .00 | .00. |
| Montgomery | .00 | 420.00 | 420.00 | .02 | 420.02 | 48.41 | 3,958.00 |
| Morgan | .07 | 136.44 | 136.51 | .00 | 136.51 | 1.43 | 1,066.70 |
| Moultrie | .00 | .00. | .00 | .00 | .00 | .00 | .00 |
| Ogle | .58 | 57.26 | 57.84 | .00 | 57.84 | 1.73 | 15,878.00 |
| Peoria | .00 | 343.00 | 343.00 | .01 | 343.01 | 3.43 | 3,183.44 |
| Perry | .00. | .00 | .00 | .00 | .00 | .00 | .00 |
| Piatt | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| Pike | .02 | 13.61 | 13.63 | .00 | 13.63 | .13 | 102.00 |
| Pope | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| Pulaski | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| Putnam | .62 | 170.96 | 171.58 | .00 | 171.58 | 2.33 | 1,535.00 |
| Randolph | .00 | 1,047.75 | 1,047.75 | .01 | 1,047.76 | 10.68 | 9,240.00 |
| Richland | .00 | .00 | .00 | .00 | .00 | .00 | .00. |
| Rock Island | 1.89 | 1.46 | 3.35 | .00 | 3.35 | .10 | 10,500.00 |
| St. Clair | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| Saline | .00 | .00 | .00 | .00 | .00 | .00 | .00. |
| Sangamon | .00 | 204.58 | 204.58 | .79 | 205.37 | 2.05 | 1,631.36 |
| Schuyler | .00 | .00. | .00 | .00 | .00. | .00 | .00 |
| Scott | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| Shelby | .00 | .00 | .00. | .00 | .00 | .00. | .00. |
| Stark | .00 | .00. | .00 | .00 | .00. | .00 | .00. |
| Stephenson | .00 | .00 | .00 | .00 | .00 | .00 | .00. |
| Tazewell | 1.03 | 764.38 | 765.41 | .00 | 765.41 | 8.67 | 3,822.75 |
| Union | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| Vermilion | .00. | 2.76 | 2.76 | .00 | 2.76 | 2.76 | 912.90 |
| Wabash | .00 | .00 | .00 | .00 | .00 | .00 | .00. |
| Warren | .00 | .00. | .00 | .00. | .00. | .00 | .00 |
| Washington | .00 | .00 | .00 | .00 | .00 | .00 | .00. |
| Wayne | .00 | .00 | .00 | .00 | .00 | .00 | .00. |
| White | .00 | .00. | .00 | .00 | .00 | .00 | .00 |
| Whiteside | .00 | .00 | .00 | .00. | .00 | .00 | .00 |
| Will Williamson | 1.11 .00 | 3,560.03 69.92 | 3,561.14 69.92 | .00 .00 | 3,561.14 69.92 | 73.52 .65 | 15,787.52 1,164.37 |
| | | | | | | | |
| Winnebago Woodford | .00 | .00 | .00 | .00 | .00 .00 | .00 .00 | 00. 00. |
| | | .00 | .00 | 00 | | | |
| Total | 9.03 | 15,159.71 | 15,168.74 | 1.31 | 15,170.05 | 370.38 | 127,894.88 |

Table 14. Thermoelectric-power self-supplied withdrawals, deliveries from public-supply facilities for thermoelectric-power generation, consumptive use, and power generated in Illinois, by hydrologic unit, 1990 [Mgal/d, million gallons per day; GWh, gigawatt-hour]

| Power | | Total self-supplied withdrawals and | Deliveries from public- | irawais, | in Mgal/d | | | |
|---------------------|-------------------------------|-------------------------------------|--------------------------------|------------|------------------|--------------|----------------------|--|
| generated in GWh | Consumptive use, in Mgal/d | deliveries, in Mgal/d | water facilities, in Mgal/d | Total | Surface water | Ground water | Hydrologic unit | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 04040001 | |
| .00 | .00 | .00 | .00 | .00 | .00 | .00 | 04040002 | |
| 10,076.00 | 70.92 | 2,789.66 | .04 | 2,789.62 | 2,789.62 | .00 | 04060200 | |
| .00 | .00 | .00 | .00 | .00 | .00 | .00 | 05120108 | |
| 912.90 | 2.76 | 2.76 | .00 | 2.76 | 2.76 | .00. | 05120109 | |
| 408.14 | .61 | 59.42 | .00 | 59.42 | 58.66 | .76 | 05120111 | |
| .00. | .00 | .00 | .00 | .00 | .00 | .00 | 05120112 | |
| .00. | .00 | .00 | .00 | .00 | .00 | .00 | 05120113 | |
| 4,756.00 | 3.45 | 419.18 | .00 | 419.18 | 419.18 | .00 | 05120114 | |
| .00 | .00 | .00 | .00 | .00 | .00 | .00 | 05120115 | |
| .00 | .00 | .00 | .00 | .00 | .00 | .00 | 05140203 | |
| 1,164.37 | .65 | 69.92 | .00 | 69.92 | 69.92 | .00 | 05140204 | |
| 6,434.00 | 4.83 | 467.48 | .00 | 467.48 | 466.55 | .93 | 05140204 | |
| .00 | .00 | .00 | .00 | .00 | .00 | .00 | 07060005 | |
| 10,500.00 | .10 | 3.35 | .00 | 3.35 | 1.46 | 1.89 | 07080101 | |
| | | | | | | | 07080104 | |
| .00. | .00 | .00 | .00 | .00 | .00 | .00 | | |
| .00. | .00 | .00 | .00 | .00 | .00 | .00 | 07090001 | |
| 00. 00. | .00 .00 | .00 .00 | .00 | .00 .00 | .00 .00 | .00 .00 | 07090003 07090004 | |
| .00 15,878.00 | | .00 57.84 | .00 .00 | | 57.26 | .58 | 07090004 | |
| | 1.73 | | | 57.84 | | | | |
| .00 | .00 | .00 | .00 | .00 | .00 | .00 | 07090006 | |
| .00 | .00. | .00 | .00 | .00 | .00 | .00 | 07090007 | |
| .00 | .00 | .00 | .00 | .00 | .00 | .00 | 07110001 | |
| .00 | .00 | .00 | .00 | .00 | .00 | .00 | 07110004 | |
| 1,686.00 | 2.25 | 218.97 | .01 | 218.96 | 218.96 | .00 | 07110009 | |
| 10,173.11 | 22.11 | 768.09 | .00 | 768.09 | 767.99 | .10 | 07120001 | |
| .00 | .00 | .00 | .00 | .00 | .00 | .00 | 07120002 | |
| 398.75 | 2.00 | 20.53 | .19 | 20.34 | 20.34 | .00 | 07120003 | |
| 11,359.49 | 19.22 | 1,864.26 | .24 | 1,864.02 | 1,862.91 | 1.11 | 07120004 | |
| 18,061.66 | 128.15 | 3,306.65 | .00 | 3,306.65 | 3,305.65 | 1.00 | 07120005 | |
| .00. | .00 | .00 | .00 | .00 | .00 | .00 | 07120006 | |
| .00 | .00 | .01 | .00 | .01 | .00 | .01 | 07120007 | |
| 1,535.00 | 2.33 | 171.58 | .00 | 171.58 | 17.96 | .62 | 07130001 | |
| .00 | .00 | .00 | .00 | .00 | .00 | .00 | 07130002 | |
| 10,608.40 | 21.99 | 1,479.24 | .01 | 1,479.23 | 1,477.38 | 1.85 | 07130003 | |
| .00 | .00 | .00 | .00 | .00 | .00 | .00 | 07130004 | |
| .00. | .00 | .00 | .00 | .00 | .00 | .00 | 07130005 | |
| .00. | .00 | .00 | .00 | .00 | .00 | .00 | 07130006 | |
| 6,120.36 | 9.98 | 998.80 | .79 | 998.01 | 998.01 | .00 | 07130007 | |
| .00 | .00 | .00 | .00 | .00 | .00 | .00 | 07130008 | |
| 3,051.00 | 14.79 | 493.18 | .00 | 493.18 | 493.18 | .00 | 07130009 | |
| 3,031.00 | .00 | .00 | .00 | .00 | .00 | .00 | 07130009 | |
| 1,168.70 | 1.56 | .00 15.14 | .00 | 15.14 | 15.05 | .09 | 07130010 | |
| | .00 | .00 | .00 | .00 | .00 | .00 | 07130011 | |
| .00 19.00 | .38 | 38.36 | .00 | 38.36 | 38.36 | .00 | 07140101 | |
| | | | | | | | | |
| 386.00 | 1.48 | 142.85 | .00 | 142.85 | 142.76 | .09 | 07140105 | |
| .00. | .00 | .00 | .00 | .00. | .00 | .00 | 07140106 | |
| .00. | .00 | .00 | .00 | .00. | .00 | .00 | 07140108 | |
| .00. | .00 | .00 | .00 | .00. | .00 | .00 | 07140201 | |
| .00 | .00 | .00 | .00 | .00 | .00 | .00 | 07140202 | |
| 3,958.00 | 48.41 | 420.02 | .02 | 420.00 | 420.00 | .00 | 07140203 | |
| 0.040.00 | 1.68 | 1,047.76 | .01 | 1,047.75 | 1,047.75 | .00 | 07140204 | |
| 9,240.00 | | | | | | | | |

Table 15. Total withdrawals in Illinois, by county, 1990 [All values are in million gallons per day]

| | | | | Withdrawals | | | |
|-------------------|---------------|------------------------|---------------|------------------|----------------|-----------------|---------------|
| Country | Fresh | Ground water Saline | Total | Surface water | Fresh | Total Saline | Total |
| County | | Sanne | | | | | |
| Adams | 13.60 | 0.00 | 13.60 | 7.06 | 20.66 | 0.00 | 20.66 |
| Alexander | .91 | .00 | .91 | 1.42 | 2.33 | .00 | 2.33 |
| Bond | 1.08 | .00 | 1.08 | .94 | 2.02 | .00 | 2.02 |
| Boone | 5.61 | .00 | 5.61 | .00 | 5.61 | .00 | 5.61 |
| Brown | .60 | .00 | .60 | .00 | .60 | .00 | .60 |
| Bureau | 6.17 | .00 | 6.17 | .28 | 6.45 | .00 | 6.45 |
| Calhoun | 1.50 | .00 | 1.50 | 9.08 | 10.58 | .00 | 10.58 |
| Carroll | 4.50 | .00 | 4.50 | 7.86 | 12.36 | .00 | 12.36 |
| Cass Champaign | 6.47 29.15 | .00 .00 | 6.47 29.15 | .25 5.23 | 6.72 34.38 | .00 .00 | 6.72 34.38 |
| . • | | | | 795.81 | | .46 | 798.54 |
| Christian | 2.27 | .46 | 2.73 | | 798.08 4.18 | .11 | 4.29 |
| Clark | 4.18 .70 | .11 .72 | 4.29 1.42 | .00 .90 | 1.60 | .72 | 2.32 |
| Clay Clinton | 2.73 | .72 | 3.04 | .90 3.41 | 6.14 | .31 | 6.45 |
| Coles | 1.50 | .12 | 1.62 | 4.20 | 5.70 | .12 | 5.82 |
| | 48.06 | .00 | 48.06 | 1,742.94 | 1,791.00 | .00 | 1,791.00 |
| Cook Crawford | 3.84 | 3.60 | 46.00 7.44 | 62.92 | 66.76 | 3.60 | 70.36 |
| Cumberland | 1.14 | .11 | 1.25 | .02 | 1.16 | .11 | 1.27 |
| De Kalb | 11.58 | .00 | 11.58 | 2.93 | 14.51 | .00 | 14.51 |
| De Witt | 3.00 | .00 | 3.00 | 493.37 | 496.37 | .00 | 496.37 |
| Douglas | 2.08 | .00 | 2.08 | 5.75 | 7.83 | .00 | 7.83 |
| Du Page | 99.63 | .00 | 99.63 | 4.91 | 104.54 | .00 | 104.54 |
| Edgar | 1.24 | .09 | 1.33 | 1.20 | 2.44 | .09 | 2.53 |
| Edwards | .78 | .49 | 1.27 | .12 | .90 | .49 | 1.39 |
| Effingham | 2.01 | .22 | 2.23 | 2.29 | 4.30 | .22 | 4.52 |
| Fayette | 1.51 | 1.28 | 2.79 | 5.35 | 6.86 | 1.28 | 8.14 |
| Ford | 2.23 | .00 | 2.23 | .04 | 2.27 | .00 | 2.27 |
| Franklin | .79 | .23 | 1.02 | 15.34 | 16.13 | .23 | 16.36 |
| Fulton | 3.01 | .00 | 3.01 | 272.65 | 275.66 | .00 | 275.66 |
| Gallatin | 7.70 | .27 | 7.97 | 1.23 | 8.93 | .27 | 9.20 |
| Greene | 1.78 | .00 | 1.78 | .30 | 2.08 | .00 | 2.08 |
| Grundy | 10.66 | .00 | 10.66 | 1,537.16 | 1,547.82 | .00 | 1,547.82 |
| Hamilton | .68 | .51 | 1.19 | .35 | 1.03 | .51 | 1.54 |
| Hancock | 2.36 | .00 | 2.36 | 1.04 | 3.40 | .00 | 3.40 |
| Hardin | 1.44 | .00 | 1.44 | .18 | 1.62 | .00 | 1.62 |
| Henderson | 8.09 | .00 | 8.09 | .00 | 8.09 | .00 | 8.09 |
| Henry | 8.96 | .00 | 8.96 | .00 | 8.96 | .00 | 8.96 |
| Iroquois | 3.88 | .00 | 3.88 | .08 | 3.96 | .00 | 3.96 |
| Jackson | 25.56 | .00 | 25.56 | 152.41 | 177.97 | .00 | 177.97 |
| Jasper | 1.49 | 1.10 | 2.59 | 419.19 | 420.68 | 1.10 | 421.78 |
| Jefferson | 1.07 | .77 | 1.84 | 4.00 | 5.07 | .77 | 5.84 |
| Jersey | 1.45 | .00 | 1.45 | 7.35 | 8.80 | .00 | 8.80 |
| Jo Daviess | 7.09 | .00 | 7.09 | .08 | 7.17 | .00 | 7.17 |
| Johnson | .80 | .00 | .80 | .64 | 1.44 | .00 | 1.44 |
| Kane | 35.15 | .00 | 35.15 | 10.79 | 45.94 | .00 | 45.94 |
| Kankakee | 9.35 | .00 | 9.35 | 11.34 | 20.69 | .00 | 20.69 |
| Kendall | 5.41 | .00 | 5.41 | .00 | 5.41 | .00 | 5.41 |
| Knox | 3.11 | .00 | 3.11 | .00 | 3.11 | .00 | 3.11 |
| Lake | 31.48 | .00 | 31.48 | 2,842.93 | 2,874.41 | .00 | 2,874.41 |
| La Salle | 16.57 | .00 | 16.57 | 658.23 | 674.80 | .00 | 674.80 |
| Lawrence | 5.39 | 7.22 | 12.61 | .00 | 5.39 | 7.22 | 12.61 |
| Lee | 8.30 | .00 | 8.30 | .02 | 8.32 | .00 | 8.32 |
| Livingston | 3.54 | .00 | 3.54 | 2.16 | 5.70 | .00 | 5.70 |
| Logan | 4.58 | .00 | 4.58 | .11 | 4.69 | .00 | 4.69 |
| McDonough | 2.46 | .00 | 2.46 | 2.31 | 4.77 | .00 | 4.77 |

Table 15. Total withdrawals in Illinois, by county—Continued

| | | | | Withdrawals | | | - |
|------------------------|---------------|-----------------------|-----------------|------------------|------------------------|-----------------|----------------|
| County | Fresh | Ground wate Saline | Total | Surface water | Fresh | Total Saline | Total |
| County | | | | | | | |
| McHenry | 25.81 | 0.00 | 25.81 | 4.07 | 29.88 | 0.00 | 29.88 |
| McLean | 7.84 | .00 | 7.84 | 3.38 | 11.22 | .00 | 11.22 |
| Macon | 2.27 | .00 | 2.27 | 41.07 | 43.34 | .00 | 43.34 |
| Macoupin | 2.16 | .00 | 2.16 | 5.29 | 7.45 | .00 | 7.45 |
| Madison | 51.32 | .09 | 51.41 | 323.39 | 374.71 | .09 | 374.80 |
| Marion | .96 | .65 | 1.61 | 6.90 | 7.86 | .65 | 8.51 |
| Marshall | 3.91 | .00 | 3.91 | .01 | 3.92 | .00 | 3.92 |
| Mason | 36.44 | .00 | 36.44 | 102.00 | 138.44 | .00 | 138.44 |
| Massac | 10.23 | .00 | 10.23 | 466.58 | 476.81 | .00 | 476.81 |
| Menard | 1.53 | .00 | 1.53 | .00 | 1.53 | .00 | 1.53 |
| Mercer | 3.30 | .00 | 3.30 | .00 | 3.30 | .00 | 3,30 |
| Monroe | 1.70 | .00 | 1.70 | .00 .75 | 2.45 | .00 | 2.45 |
| | | | _ | | | | |
| Montgomery | 2.11 | .00 | 2.11 | 422.82 | 424.93 | .00 | 424.93 |
| Morgan | 5.46 | .00 | 5.46 | 137.13 | 142.59 | .00 | 142.59 |
| Moultrie | 1.58 | .00 | 1.58 | .99 | 2.57 | .00 | 2.57 |
| Ogle | 10.94 | .00 | 10.94 | 57.26 | 68.20 | .00 | 68.20 |
| Peoria | 36.52 | .00 | 36.52 | 361.86 | 398.38 | .00 | 398.38 |
| Perry | 2.45 | .01 | 2.46 | 8.37 | 10.82 | .01 | 10.83 |
| Piatt | 3.35 | .00 | 3.35 | .00 | 3.35 | .00 | 3.35 |
| Pike | 3.25 | .00 | 3.25 | 14.12 | 17.37 | .00 | 17.37 |
| Pope | .18 | .00 | .18 | .08 | .26 | .00 | .26 |
| Pulaski | 1.06 | .00 | 1.06 | .00 | 1.06 | .00 | 1.06 |
| Putnam | 1.68 | .00 | 1.68 | 176.05 | 177.73 | .00 | 177.73 |
| Randolph | 2.00 | .00 | 2.00 | 1.051.25 | 1,053.25 | .00 | 1,053.25 |
| Richland | .75 | .91 | 1.66 | 1.45 | 2.20 | .91 | 3.11 |
| Rock Island | 19.30 | .00 | 19.30 | 52.88 | 72.18 | .00 | 72.18 |
| St. Clair | 14.96 | .00 | 14.96 | 22.35 | 37.31 | .00 | 37.31 |
| Saline | .41 | .35 | .76 | 4.12 | 4.53 | .35 | 4.88 |
| Sanne Sangamon | 4.31 | .00 | 4.31 | 237.33 | 241.64 | .00 | 241.64 |
| Schuyler | 1.28 | .00 | 1.28 | .06 | 1.34 | .00 | 1.34 |
| Scott | 2.53 | .00 | 2.53 | .02 | 2.55 | .00 | 2.55 |
| | | .04 | 3.05 | 1.50 | 4.51 | | |
| Shelby | 3.01 | | | | | .04 | 4.55 |
| Stark Stark | 1.11 | .00 | 1.11 | .00 | 1.11 | .00 | 1.11 |
| Stephenson Tazewell | 9.96 30.55 | .00 . 00 | 9.96 - 30.55 | .00 782.40 | 9. 96 812.95 | .00 .00 | 9.96 812.95 |
| ••• | | | | | | | |
| Union | 2.92 | .00 | 2.92 | .21 | 3.13 | .00 | 3.13 |
| Vermilion | 6.09 | .00 | 6.09 | 12.76 | 18.85 | .00 | 18.85 |
| Wab as h | 1.46 | 1.23 | 2.69 | 1.13 | 2.59 | 1.23 | 3.82 |
| Warren | 3 .5 7 | .00 | 3.57 | .00 | 3.57 | .00 | 3.57 |
| Washington | 1.32 | .35 | 1.67 | 1.09 | 2.41 | .35 | 2.76 |
| Wayne | 1.58 | 1.71 | 3.29 | 1.30 | 2.88 | 1.71 | 4.59 |
| White | 6.76 | 2.49 | 9.25 | .09 | 6.85 | 2.49 | 9.34 |
| Whiteside | 16.86 | .00 | 16.86 | 4.23 | 21.09 | .00 | 21.09 |
| Will | 50.99 | .00 | 50.99 | 3,577.28 | 3,628.27 | .00 | 3,628.27 |
| Williamson | .33 | .03 | .36 | 82.55 | 82. 8 8 | .03 | 82.91 |
| Winnebago | 48.09 | .00 | 48.09 | .82 | 48.91 | .00 | 48.91 |
| Woodford | 3.41 | .00 | 3.41 | 5.72 | 9.13 | .00 | 9.13 |
| Total | | 25.47 | | | | | |
| 10121 | 919.82 | 23.47 | 945.29 | 17,070.83 | 1,799.65 | 25.47 | 18,016.12 |

Table 16. Total withdrawals in Illinois, by hydrologic unit, 1990 [All values are in million gallons per day]

| | | | | Withdrawals | 3 | | |
|----------------------|---------------|--------------|---------------|----------------|------------------------|------------|----------------|
| Hydrologic | | Ground water | | Surface | | Total | |
| unit | Fresh | Saline | Total | water | Fresh | Saline | Total |
| 04040001 | 0.02 | 0.00 | 0.02 | 35.80 | 35.82 | 0.00 | 35.82 |
| 04040001 | 1.66 | .00 | 1.66 | 83.92 | 85.58 | .00 | 85.58 |
| 04060200 | .00 | .00 | .00 | 3,947.56 | 3,947.56 | .00 | 3,947.56 |
| 05120108 | .42 | .00 | .42 | | | .00 | |
| 05120108 | .42 11.20 | .00 | .42 11.20 | .49 14.71 | .91 25.91 | .00 | .91 25.91 |
| 03120109 | | .00 | | | 23.91 | | 23.71 |
| 05120111 | 6.13 | .05 | 6.18 | 64.12 | 70.25 | .05 | 70.30 |
| 05120112 | 12.71 | 10.66 | 23.37 | 2.63 | 15.34 | 10.66 | 26.00 |
| 05120113 | 5.36 | 2.55 | 7.91 | 1.40 | 6.76 | 2.55 | 9.31 |
| 05120114 | 7.46 | 5.32 | 12.78 | 427.51 | 434.97 | 5.32 | 440.29 |
| 05120115 | 2.44 | 1.14 | 3.58 | .50 | 2.94 | 1.14 | 4.08 |
| 05140203 | 2.32 | .00 | 2.32 | .48 | 2.80 | .00 | 2.80 |
| 05140204 | 9.11 | 1.55 | 10.66 | 76.82 | 85.93 | 1.55 | 87.48 |
| 05140206 | 11.29 | .00 | 11.29 | 468.64 | 479.93 | .00 | 479.93 |
| 07060005 | 11.78 | .00 | 11.78 | 7.88 | 19.66 | .00 | 19.66 |
| 07080101 | 16.27 | .00 | 16.27 | 52.90 | 69.17 | .00 | 69.17 |
| 07080104 | 16.88 | .00 | 16.88 | .58 | 17.46 | .00 | 17.46 |
| 07090001 | 1.19 | .00 | 1.19 | .74 | 1.93 | .00 | 1.93 |
| 07090001 | 13.16 | .00 | 13.16 | .03 | 13.19 | .00 | 13.19 |
| 07090003 | 1.44 | .00 | 1.44 | .01 | 1.45 | .00 | 1.45 |
| 07090004 | 76.63 | .00 | 76.63 | 61.61 | 138.24 | .00 | 138.24 |
| 07090003 | | | | | | | |
| 07090006 | 25.92 | .00 | 25.92 | 3.28 | 29.20 | .00 | 29.20 |
| 07090007 | 10.02 | .00 | 10.02 | .02 | 10.04 | .00 | 10.04 |
| 07110001 | 12.27 | .00 | 12.27 | 7.23 | 19.50 | .00 | 19.50 |
| 07110004 | 4.57 | .00 | 4.57 | 3.23 | 7.80 | .00 | 7.80 |
| 07110009 | 18.27 | .00 | 18.27 | 232.44 | 250.71 | .00 | 250.71 |
| 07120001 | 13.33 | .00 | 13.33 | 779.31 | 792.64 | .00 | 792.64 |
| 07120002 | 5.10 | .00 | 5.10 | .09 | 5.19 | .00 | 5.19 |
| 07120003 | 33.71 | .00 | 33.71 | 256.37 | 290.08 | .00 | 290.08 |
| 07120004 | 168.90 | .00 | 168.90 | 1,935.95 | 2,104.85 | .00 | 2,104.85 |
| 07120005 | 17.90 | .00 | 17.90 | 3,309.67 | 3,327.57 | .00 | 3,327.57 |
| 07120006 | 38.96 | .00 | 38.96 | 3.02 | 41.98 | .00 | 41.98 |
| 07120007 | 43.10 | .00 | 43.10 | 22.26 | 65.36 | .00 | 65.36 |
| 07130001 | 38.72 | .00 | 38.72 | 197.85 | 236.57 | .00 | 236.57 |
| 07130002 | 4.26 | .00 | 4.26 | 9.92 | 14.18 | .00 | 14.18 |
| 07130003 | 67.40 | .00 | 67.40 | 1,506.90 | 1,574.30 | .00 | 1,574.30 |
| 07130004 | 9.32 | .00 | 9.32 | 9.63 | 18.95 | .00 | 18.95 |
| 07130005 | 10.99 | .00 | 10.99 | .54 | 11.53 | .00 | 11.53 |
| 07130005 | 10.55 | .01 | 10.56 | 42.58 | 53.13 | .01 | 53.14 |
| 07130007 | 3.43 | .45 | 3.88 | 1,032.49 | 1,035.92 | .45 | 1,036.37 |
| 07130007 | 15.07 | .00 | 15.07 | .64 | 15.71 | .00 | 15.71 |
| 07120000 | | 00 | | 402.50 | | 00 | £10.00 |
| 07130009 | 19.37 | .00 | 19.37 | 493.52 | 512.89 | .00 | 512.89 |
| 07130010 | 4.06 | .00 | 4.06 | 2.44 | 6.50 | .00 | 6.50 |
| 07130011 | 12.64 | .00 | 12.64 | 164.61 | 177.25 | .00 | 177.25 |
| 07130012 07140101 | 2.58 45.93 | .00 .00 | 2.58 45.93 | 4.17 109.17 | 6.7 5 155.10 | .00 .00 | 6.75 155.10 |
| | | | | | | | |
| 07140105 | 3.76 | .00 | 3.76 | 145.51 | 149.27 | .00 | 149.27 |
| 07140106 | 29.81 | 1.20 | 31.01 | 48.22 | 78.03 | 1.20 | 79.23 |
| 07140108 | 1.34 | .00 | 1.34 | .11 | 1.45 | .00 | 1.45 |
| 07140201 | 26.64 | .04 | 26.68 | 8.80 | 35.44 | .04 | 35.48 |
| 07140202 | 4.23 | 2.32 | 6.55 | 12.60 | 16.83 | 2.32 | 19.15 |
| 07140203 | 3.03 | .03 | 3.06 | 424.69 | 427.72 | .03 | 427.75 |
| 07140204 | 7.17 | .15 | 7.32 | 1,055.24 | 1,062.41 | .15 | 1,062.56 |
| Total | 919.82 | 25.47 | 945.29 | 1,707.83 | 17,990.65 | 25.47 | 18,016.12 |
| | | | | | | | |